

Curriculum Vita

Name: Beek, P. J.
First Name: Peter
Date of Birth: July 9, 1959
Place of Birth: Delft, the Netherlands
Civil Status: Married
Citizenship: The Netherlands
Address (Work): Department of Motor Behavior, Faculty of Behavioural and Movement Sciences, Vrije Universiteit Amsterdam, van der Boechorststraat 9, 1081 BT Amsterdam, the Netherlands
Address (Home): Jacob van Lennepkade 57, 1054 ZH Amsterdam, the Netherlands
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Education

1971-1977: Atheneum-B, Hugo Grotius Scholengemeenschap, Delft.

1977-1980: Interfaculty of Physical Education, Vrije Universiteit Amsterdam, The Netherlands, BSc, *cum laude*.

1980-1985: Interfaculty of Physical Education, Vrije Universiteit Amsterdam, The Netherlands, MSc, *cum laude*.

1985-1989: Faculty of Human Movement Sciences, Vrije Universiteit Amsterdam, Ph.D., *cum laude*.

Academic positions

1988-1994: Assistant Professor (University Docent), Department of Psychology, Faculty of Human Movement Sciences, Vrije Universiteit Amsterdam, The Netherlands.

1989-Present: Fellow of the Center for the Ecological Study of Perception and Action, Department of Psychology, University of Connecticut, Storrs, CT, U.S.A.

1994-1998: Associate Professor (University Head Docent), Department of Psychology, Faculty of Human Movement Sciences, Vrije Universiteit Amsterdam, The Netherlands.

1998-Present: Full Professor of Coordination Dynamics, Department of Motor Behavior, Faculty of Behavioural and Movement Sciences, Vrije Universiteit Amsterdam, The Netherlands.

2005-2010: Visiting Professor at the Centre for Sport and Exercise Sciences, John Moores University Liverpool, Liverpool, United Kingdom.

2007-2015: Dean of Faculty of Human Movement Sciences, Vrije Universiteit Amsterdam, The Netherlands.

2014-2015: Interim Dean of Faculty of Psychology and Education, Vrije Universiteit Amsterdam, The Netherlands.

2015-2019: Dean of Faculty of Behavioural and Movement Sciences, Vrije Universiteit Amsterdam, The Netherlands.

Teaching experience

Graduate and undergraduate courses in:

- Movement control and coordination;
- Perception and action;
- Acquisition of perceptual-motor skills;
- Nonlinear dynamics;
- Research methods; theory of measurement;
- Philosophy of human movement (science).

Research interests

- Motor control and coordinated movement;
- Perception-action coupling;
- Perceptual-motor skill acquisition and expertise.

Professional societies

- International Society for Ecological Psychology (Member);
- Psychonomic Society (The Netherlands Foundation for Scientific Research; Member);
- Vereniging voor Bewegingswetenschappen Nederland (Society for Human Movement Sciences the Netherlands, Board Member)
- Association for Psychological Science (Member of Integrative Science Initiative Steering Committee)

Courses in teaching

Course on Lecturing, Education Advisory Bureau, Vrije Universiteit Amsterdam, 1996.

Course on Testing and Grading, Education Advisory Bureau, Vrije Universiteit Amsterdam, 1997.

Management and leadership courses

Management of human resources. Looten-De Sonnaville Management Consultants, 1995.

CALL: Community for Authentic Leadership and Learning, Twijnstra & Gudde, 2008-2009 (interview group still active).

Editorial activities

Editor-in-chief of *Human Movement Science* (1999-2019).

Consulting editor of *Ecological Psychology*.

Member of the Advisory Board of *Sportwissenschaft*.

Reviewing activities

Ad hoc reviewer of manuscripts for the following peer-reviewed international journals: *Acta Psychologica*, *Advances in Neuroscience*, *Behavioral and Brain Sciences*, *Biological Cybernetics*, *Biomed Research International*, *British Journal of Psychology*, *Clinical Interventions in Aging*, *Cognitive Psychology*, *Developmental Psychology*, *Developmental Science*, *Disability and Rehabilitation*, *Ecological Psychology*, *Ergonomics*, *Experimental Brain Research*, *European Journal of Pain*, *Frontiers in Neuroscience*, *Gait & Posture*, *IEEE Transactions on Biomedical Engineering*, *International Journal of Sports Medicine*, *Journal of Electromyography and Kinesiology*, *Journal of Experimental Psychology: General*, *Journal of Experimental Psychology: Human Perception and Performance*, *Journal of Neurophysiology*, *Journal of Sport Sciences*, *Journal of the Royal Society Interface*, *Motor Control*, *Scientific Reports Nature*, *Neuroscience Letters*, *Perception*, *Perception and Psychophysics*, *Perceptual and Motor Skills*, *Physica D*, *PLOS Computational Biology*, *PLOS One*, *Prosthetics & Orthotics International*, *Psychology of Sport & Exercise*, *Sport en Geneeskunde*, *Research Quarterly for Exercise and Sport Somatosensory & Motor Research*, *Scientific Reports (Nature Research)* and *Transactions on Neural Systems and Neuro-rehabilitation Engineering*.

Ad hoc grant reviewing activities for: *Christian Doppler Forschungsgesellschaft (Austria)*, *Der Wissenschaftsfonds (FWF, Austrian Science Fund)*, *The Fund for Scientific Research (FNRS, Brussels, Belgium)*, *The Health Research Board (Ireland)*, *The International Olympic Committee (Lausanne, Switzerland)*, *The Israel Science Foundation*, *The Vrije Universiteit Brussel (expert panel for the Research Evaluation "Physical education and physiotherapy")*, *The MacArthur Foundation (USA)*, *The National Science Foundation (USA)*, *The N.A.T.O. and the European Community (European Scientific Foundation, i.c. ESF's Standing Committee for the Social Sciences SCSS, "Marie Curie International Reintegration Grants" as part of the Human Resources and Mobility component of the European Sixth Framework Programme)*, *The Research Foundation — Flanders (Fonds voor Wetenschappelijk Onderzoek Vlaanderen)*, *Research Grants Council of Hong Kong*, *The Katholieke Universiteit Leuven*, *The U.S.-Israel Binational Science Foundation*, *The Royal Society of Edinburgh*, and *The Netherlands Organization for Scientific Research (Nederlandse Organisatie voor Wetenschappelijk Onderzoek, Stichting Maatschappij- en Gedragwetenschappen, Stichting Levenswetenschappen, Stichting Technische Wetenschappen, ZonMW)*.

In addition, I have provided several confidential assessments and letters of recommendation for individual scholars, either for promotion at their own university or for job applications elsewhere.

External funding [Total of funds procured > 10 M€]

A grant from N.W.O. (The Netherlands Foundation for Scientific Research) for a four-year graduate research project on the coordination of rhythmic movements (1989-1993) — with dr. P. C. W. van Wieringen [k€ 110].

A grant from N.W.O. (The Netherlands Foundation for Scientific Research) for a four-year graduate research project on polyrhythmic tapping (1992-1996) — with dr. P. C. W. van Wieringen [k€ 110].

A grant from N.W.O. (The Netherlands Foundation for Scientific Research) for a four-year graduate research project on developmental transitions (1992-1996) — with prof. dr. B. Hopkins [k€ 110].

A grant from Vrije Universiteit Amsterdam (USF'95) for a two-year post-doctoral research project on the dynamics of brain activity during polyrhythmic tapping (1999-2000) [k€ 80].

A grant from N.W.O. (The Netherlands Foundation for Scientific Research) for a four-year post-doctoral research project on the stability and flexibility of walking (1996-2000) — with dr. R. C. Wagenaar. The project was part of a larger research programme (1996-2000) [k€ 160].

Principal applicant of a grant from N.W.O. (The Netherlands Foundation for Scientific a four-year research programme on the stability and flexibility of movement (1996-2000), entailing three graduate research projects and one post-doctoral research project — with dr. W. Hulstijn [k€ 500].

A grant from Vrije Universiteit Amsterdam (USF'96) for a research program on discrete and rhythmic movements (1996-2000), involving three post-doctoral research projects (of four years each) [k€ 480].

A grant from the K.N.V.B. (The Royal Dutch Soccer Association) for a four-year research project on the perceptual abilities of young soccer players and soccer referees (1996-2000) — with dr. F. C. Bakker [k€ 110].

A grant from N.W.O. (The Netherlands Foundation for Scientific Research) for a 3D movement registration system (OptoTrak) and a 2D dataprojection system (Barco plus Silicon Graphics Onyx) (1997) — with dr. R. C. Wagenaar [k€ 160].

A grant from N.W.O. (The Netherlands Foundation for Scientific Research) for a four-year graduate research project on the development of dexterity in juggling (1999-2003) [k€ 120].

A grant from Vrije Universiteit Amsterdam ("Breedtestrategie") for a four-year graduate research project on the visual regulation of interceptive actions (1999-2003) [k€ 120].

Principal applicant of a grant from Vrije Universiteit Amsterdam ("Breedtestrategie") for a four-year research programme on the visual regulation of interceptive actions (1999-2003) [k€ 500].

A grant from N.W.O. (The Netherlands Foundation for Scientific Research) for a four-year graduate research project on the inertia tensor hypothesis in haptics (2002-2006) — with dr. I. Kingma [k€ 160].

A grant from N.W.O. (The Netherlands Foundation for Scientific Research) for a four-year graduate research project on synchronization in the brain (2002-2006) — with dr. A. Daffertshofer [k€ 160].

A grant from N.W.O. (The Netherlands Foundation for Scientific Research) for a four-year graduate research project on automatization and deautomatization (2002-2006) — with dr. R. R. D. Oudejans [k€ 160].

A grant from N.W.O. (The Netherlands Foundation for Scientific Research) for a four-year graduate research project on the infusion of affect and social context in the perception-action interface (2002-2006) — with prof. dr. G. Semin [k€ 160].

A grant from NOC/NSF (The Netherlands Olympic Committee/Netherlands Sport Federation) for a (BOK) research project to determine the effects of force training on movement coordination in an elite athlete (2003) [k€ 6].

A grant from Research Institute MOVE, Vrije Universiteit Amsterdam (internal competition), for a four-year graduate post-doctoral research project on posturography in a clinical context (2004-2008) [k€ 180].

A grant from N.W.O. (The Netherlands Foundation for Scientific Research) for a four-year graduate research project on dynamic touch and optimal cue theory (2008-2012) — with dr. I. Kingma and prof. dr. J. Smeets [k€ 180].

A grant from Research Institute MOVE, Vrije Universiteit Amsterdam (internal competition), for a four-year graduate research project on the effects of bilateral training on the improvement of arm and hand function in stroke patients (2004-2008) [k€ 180] — with prof. dr. G. Kwakkel and dr. C. E. Peper [k€ 180].

- A grant from N.W.O. (The Netherlands Foundation for Scientific Research) for a three-year post-doc research project on the classification of gait patterns (2009-2012) — with dr. A. Daffertshofer [k€ 220].
- A grant from ZonMW/N.W.O. (The Netherlands Foundation for Scientific Research) for a research project aimed at developing and testing a novel instrument to support fall prevention in extramural care involving a post-doctoral researcher and two graduate students (2010-2014) — with dr. M. Pijnappels, prof.dr. J. H. van Dieën, dr. P. J. Elders and prof.dr. P. T. A. M. Lips [k€ 669].
- A grant from the EU (European Union, Erasmus Mundus program MOVE-Age) for a three-year graduate research project on the relationship between executive function and gait adaptability in older adults (“Watch out! Gait adaptability in older adults with low and high executive function”) (2012-2015) — with dr. C. E. Peper and dr. M. Roerdink [k€ 170].
- A grant from COMMIT/ (A Public Private Research Community) for a research project called “Sensor driven coaching for healthy living” (2013-2017) — with prof.dr. J. H. van Dieën and Infosys [k€ 240].
- A grant from NWO/STW for a research program called “Optimalisatie van voortstuwing door en over het water” (2013-2018) — with prof.dr. H. J. H. Clercx, prof.dr. J. Westerweel and dr. A. J. van Soest [M€ 1,2].
- A grant from NWO/TTW for a research program called “Citius Altius Sanius” (2017-2022) — with prof.dr. F. C. T. van der Helm and MSc D. Bregman [M€ 6,2].

Patents

Device for displaying target indications for foot movements to persons with a walking disorder (2009, Inventors: M. Roerdink, P. J. Beek; Assignee: ForceLink BV). US2009246746-A1; EP2106779-A1; JP2009240775-A; NL1035236-C2.

Co-supervisor of completed Ph.D. projects (3)

- Van Santvoord, A. A. M. (1995). *Cascade juggling: Learning, variability, and information*. Published Doctoral Dissertation. Enschede: CopyPrint 2000. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, January 27, 1995.
- Peper, C. E. (1995). *Tapping dynamics*. Published Doctoral Dissertation. Amsterdam: CopyPrint 2000 (*cum laude*). Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, November 27, 1995.
- Wimmers, R. H. (1996). *Grasping developmental change*. Published Doctoral Dissertation. Amsterdam: CopyPrint 2000. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, December 19, 1996.

Supervisor of completed Ph.D. projects (44)

- Leemrijse, C. J. (2000). *Developmental coordination disorders: Evaluation and treatment*. Published Doctoral Dissertation. Enschede: Print Partners Ipskamp B.V. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, March 16, 2000.
- Post, A. A., (2000). *Effects of task constraints on the relative phasing of rhythmic movements*. Published Doctoral Dissertation. Enschede: PrintPartners Ipskamp B.V. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, February 15, 2001.
- Frank, T. D. (2000). *Stochastic properties of human motor control: Nonlinear Fokker-Planck equations*. Published Doctoral Dissertation. Enschede: PrintPartners Ipskamp. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, February 20, 2001 (*cum laude*).
- Donker, S. F. (2002). *Flexibility of human walking: A study on interlimb coordination*. Published Doctoral Dissertation. Ph.D. Defense, Groningen University, The Netherlands, October 30, 2002.
- Wu, W. (2004). *Pregnancy-related Pelvic girdle Pain (PPP): An emphasis on transverse pelvis-thorax coordination during walking*. Published Doctoral Dissertation. Amsterdam: Reprohouse. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, January 28, 2004.
- Lamoth, C. (2004). *Walking with back pain*. Published Doctoral Dissertation. Amsterdam: ReproHouse. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, April 1, 2004.
- Huys, R. (2004). *Disentangling perceptual-motor learning*. Published Doctoral Dissertation. Amsterdam: Reprohouse. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, June 22, 2004.
- Dessing, J. (2005). *Neural dynamics underlying interceptive actions*. Published Doctoral Dissertation. Amsterdam: ReproHouse. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, March 4, 2005 (*cum laude*).
- Pijpers, R. (2006). *The impact of anxiety on perceptual-motor behaviour*. Published Doctoral Dissertation. Enschede: Febodruk B.V. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, April 13, 2006.
- Kistenmaker, D. (2006). *The control of fast goal-directed movements. A critical test of the equilibrium point hypothesis*. Published Doctoral Dissertation. Amsterdam: ReproHouse. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, May 18, 2006.
- Van Mourik, A. (2006). *Structure from randomness: A window into coordination*. Published Doctoral Dissertation. Enschede: PrintPartners Ipskamp. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, June 2, 2006.
- Ridderikhoff, A. (2006). *Rhythmic bimanual coordination: Interlimb interactions and effector dynamics*. Published Doctoral Dissertation. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, September 15, 2006.
- Selen, L. P. J. (2006). *Impedance modulation: A means to cope with neuromuscular noise*. Published Doctoral Dissertation. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, February 16, 2007.
- Van de Langenberg, R. (2007). *How do you feel? An inquiry into dynamic touch and proprioception*. Published Doctoral Dissertation. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, June 4, 2007.
- De Poel, H. (2007). *Asymmetric interlimb coupling strength in rhythmic bimanual coordination*. Published Doctoral Dissertation. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, June 4, 2007.
- Boonstra, T. (2007). *Neural dynamics of human motor control*. Published Doctoral Dissertation. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, September 20, 2007.
- Ferraz de Oliveira, R. (2007). *Visual perception for basketball shooting*. Published Doctoral Dissertation. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, October 29, 2007.
- Roerdink, M. (2009). *Anchoring: Moving from theory to therapy*. Published Doctoral Dissertation. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, February 17, 2009.
- Scholz, M. (2009). *Jump and run. Energetics and mechanics of explosive and cyclic movements*. Published Doctoral Dissertation. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, May 11, 2009.
- Bruijn, S. M. (2010). *Is stability an unstable concept? Quantifying dynamic stability of human locomotion*. Published Doctoral Dissertation. Amsterdam: Ipskamp (ISBN 9789 0865 9455 9). Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, May 27, 2010.
- Van Ulzen, N. R. (2010). *Exploring affective perception and social action*. Published Doctoral Dissertation. (ISBN 9789076269887). Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, May 27, 2010.

- Vardy, A. (2010). *Moving in time: Neurons, clocks, and rhythmic movements*. Published Doctoral Dissertation. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, December 8, 2010.
- Houweling, S. (2010). *Neural entrainment in coordination dynamics*. Published Doctoral Dissertation. Ridderkerk: Ridderprint Offsetdrukkerij (ISBN 9789 0865 9510 5). Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, December 13, 2010.
- Van Wijk, B. (2012). *Neural synchronization within and between regions of the motor system*. Published Doctoral Dissertation. Enschede: Ipskamp Drukkers (ISBN 978-94-6191-480-4). Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, November 26, 2012.
- De Boer, B. J. (2013). *Stabilizing bimanual coordination: Changes in interlimb interactions*. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, January 21, 2013.
- Debats, N. (2013). *Exploratory movements in haptic perception*. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, February 25, 2013.
- Van Delden, A. E. Q. (2014). *Unilateral versus bilateral upper limb training after stroke*. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, February 14, 2014.
- Bank, L. (2014). *Motor dysfunction in Complex Regional Pain Syndrome. The role of sensory processing and sensory-motor integration*. Leiden University, The Netherlands, April 8, 2014.
- Hak, L. (2014). *Step by step. Stepping strategies to prevent falling while walking*. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, May 8, 2014.
- Marmelat, V. (2014). *Synchronization with fractal rhythms. Complexity matching of statistical structure*. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, September 30, 2014 (double degree).
- Marmelat, V. (2014). *Appariement des structures temporelles de deux systèmes complexes couplés: perspectives de réhabilitation d'un système déficient*. Ph.D. Defense, SMH Sciences du Mouvement Humain, UM1, Montpellier, France, October 24, 2014 (double degree).
- Rispens, S. (2015). *A walk on the wild side. Fall-risk assessment from daily-life gait*. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, May 27, 2015.
- Ijmker, T. (2015). *Balance control in human walking: An energetic perspective*. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, September 22, 2015.
- Hutter, R. I. (2016). *Training and assessment for sport psychology practice*. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, May 20, 2016.
- Mazaheri, M. (2016). *Older adults: Mind your step!* Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, October 28, 2016.
- Stevens, T. (2017). *External load during football training: The power of acceleration and deceleration*. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, February 23, 2017.
- Van Lummel, R. C. (2017). *Assessing Sit-to-Stand for clinical use*. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, March 30, 2017.
- Van Ooijen-Kerste, M. (2017). *Steps to follow. Toward the clinical assessment and training of walking adaptability*. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, April 26, 2017.
- De Melker Worms, J. (2017). *Human balance control: Effects of fear and attention in standing and walking*. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, July 3, 2017.
- Van den Heuvel, M. (2017). *Augmented visual feedback in Parkinson's disease – assessing and improving postural control*. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, December 22, 2017.
- Van Houwelingen, J. (2018). *In the swim. Optimising propulsion in human swimming*. Ph.D. Defense, Technische Universiteit Eindhoven, The Netherlands, October 30, 2018.
- Van der Graaff, E. (2019). *Perfecting your pitch. In search of the perfect baseball pitch and its training*. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, April 10, 2019.
- Timmermans, C. (2019). *Walking-adaptability assessment and training: Steps towards clinical implementation*. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, September 17, 2019.
- Lintmeijer, L. L. (2019). *Power in rowing. In search of effective feedback variables*. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, December 18, 2019.

Supervisor of current Ph.D. projects (10)

Daniëlle Bouman (2020), Bert Coolen (2023), Radoslaw Ryszard Dukalski (2022), Sander Ganzevles (2020), Minke van der Kamp (2023), Anouk Nijs (2022), Ben van Oeveren (2020), Sander Schreven (2020), Manon Smit (2023), Jora Wolfram (2023).

External examiner of Ph.D. theses (40)

- Van Soest, A. J., *Jumping from structure to control. A simulation study of explosive movements*. Vrije Universiteit Amsterdam, The Netherlands, October 22, 1992.
- Van Doorn, R., *Relevance of vision for adult handwriting*. Vrije Universiteit Amsterdam, The Netherlands, March 16, 1992.
- Koken, P. W., *Human eye and hand movements in tracking tasks*. University of Utrecht, The Netherlands, December 7, 1993.
- Zaal, F. T. J. M., *On prehension. Toward a dynamical account of reaching and grasping movements*. Vrije Universiteit Amsterdam, The Netherlands, November 1, 1995.
- Stins, J., *Information-action compatibility*. Vrije Universiteit Amsterdam, The Netherlands, April 1, 1998.
- Schillings, J. J., *The control of joint movement in graphic performance: A kinematic approach*, Katholieke Universiteit Nijmegen, Nijmegen, The Netherlands, November 2, 1998.
- Kingma, I., *Challenging gravity: The mechanics of lifting*. Vrije Universiteit Amsterdam, The Netherlands, December 7, 1998.
- Boessenkool, J. J., *Moving two hands: Common versus independent control*. University of Utrecht, The Netherlands, June 21, 1999.
- Mates, J., *On the synchronization of simple motor responses to a metronome*. Katholieke Universiteit Nijmegen, Nijmegen, The Netherlands, September 20, 1999.
- Bongers, R. M., *An action perspective on tool use and its development*. Katholieke Universiteit Nijmegen, Nijmegen, The Netherlands, April 24, 2001.
- Van Thiel, E., *(Dis)ordered motor control characterizing arm movements in cerebral palsy*. Katholieke Universiteit Nijmegen, The Netherlands, October 3, 2001.

- Nevin, C., *Initiation and control of gait from first principles: A mathematically animated model of the foot*. University of Cape Town, South-Africa, December, 2001.
- Jacobs, D. M., *On perceiving, acting, and learning. Toward an ecological approach anchored in convergence*. Vrije Universiteit Amsterdam, The Netherlands, January 17, 2002 (*cum laude*).
- Brouwer, A.-M., *The use of visual information in intercepting moving objects*. Erasmus Universiteit Rotterdam, The Netherlands, April 24, 2002.
- De Groot, S., *Hand rim wheelchair propulsion: Biophysical aspects of learning*. Vrije Universiteit Amsterdam, The Netherlands, November 28, 2003.
- Wisse, M., *Essentials of dynamic walking. Analysis and design of two-legged robots*. Technical University Delft, The Netherlands, September 22, 2004 (*cum laude*).
- Withagen, R., *On the functional specificity of calibration*. Vrije Universiteit Amsterdam, The Netherlands, February 23, 2005.
- Millieux, L., *La dynamique du recrutement et de la suppression des degrés de liberté dans les coordinations motrices. [Dynamics of recruitment/suppression of degrees of freedom in motor coordination]*. L' Université de la Méditerranée, Marseille, France, December 6, 2005.
- Villard, S., *Processus de synchronisation entre locomotion et respiration [The process of synchronisation between locomotion and respiration]*. L' Université de Montpellier I, Montpellier, France, December 7, 2005.
- Atchy-Dalama, P., *Approche dynamique de l'apprentissage: Pratique variable et rôle des informations sensorielles [Dynamical approach to learning: Variability of practice and the role of sensory information]*. Université Toulouse III – Paul Sabatier U.F.R. Staps, Toulouse, France, December 8, 2005.
- Heij, P., *Grondslagen van 'verantwoord' bewegingsonderwijs. Filosofische en pedagogische doordenking van relationeel gefundeerd bewegings-onderwijs*. Budel: Uitgeverij Damon BV. Vrije Universiteit Amsterdam, The Netherlands, June 21, 2006.
- Visser, J. E., *Basal ganglia and postural control*. Radboud Universiteit Nijmegen, The Netherlands, June 17, 2008.
- Lim, I., *Rehabilitation in Parkinson's disease: Strategies for cueing*. Vrije Universiteit Amsterdam, The Netherlands, May 19, 2009.
- Abrahamse, E. L., *Serial action and perception*. University of Twente, The Netherlands, January 28, 2010 (*cum laude*).
- Horlings, C. G. C., *A weak balance: Balance and falls in patients with neuromuscular disorders*. Radboud University Nijmegen, The Netherlands, April 1, 2010.
- Brink, M. S., *Balancing stress and recovery in sports*. Rijksuniversiteit Groningen, The Netherlands, December 6, 2010.
- Van der Werf, J., *Cortical oscillatory activity in human visuomotor integration*. Radboud Universiteit Nijmegen, The Netherlands, March 30, 2011.
- Mugge, W., *Reflex mechanisms in CRPS-related dystonia*. Technische Universiteit Delft, The Netherlands, June 22, 2011.
- Rey, F. P., *Le jonglage et les sciences. D'une étude pluridisciplinaire à une vision transdisciplinaire*. L'Université René Descartes – Paris V, November 23, 2011.
- Snijders, A. H., *Tackling freezing of gait in Parkinson's disease*. Radboud University Nijmegen, The Netherlands, June 4, 2012.
- Benjaminse, A., *Motor learning in ACL injury prevention*. Rijksuniversiteit Groningen, The Netherlands, November 9, 2015.
- Noël, B., *What the penalty taker should and should not know: How having too much information about the goalkeeper can hinder penalty kick performance*. Vrije Universiteit Amsterdam, March 2, 2016.
- Onneweer, B., *Is the force with you? On the accuracy of human force perception*. Technische Universiteit Delft, March 23, 2016.
- Van Dijk, L., *The reality of practice: an action systems approach to serious gaming*. Rijksuniversiteit Groningen, The Netherlands, November 23, 2016.
- Reijnierse, E. M., *Muscle matters! Recognizing the relevance of the ageing muscle*. Vrije Universiteit Amsterdam, April 3, 2017.
- Zult, T., *Inter-limb mechanisms and clinical relevance of cross-education in humans*. Rijksuniversiteit Groningen, The Netherlands, June 12, 2017.
- Mentzel, T. Q., *Capturing the cacophony of movement – Assessment, epidemiology and treatment of movement disorders in patients with psychotic disorders*. Universiteit Maastricht, The Netherlands, June 8, 2018.
- Cuijpers, L., *Coordination dynamics in crew rowing*. Rijksuniversiteit Groningen, The Netherlands, September 9, 2019.
- Postma, D. B. W., *Affordance-based control in running to catch fly balls*. Rijksuniversiteit Groningen, The Netherlands, October 14, 2019.
- Maldini, I., *Can design confront consumerism?* Vrije Universiteit Amsterdam, The Netherlands, November 26, 2019.

Articles in refereed journals [n = 304; IF = 2018 impact factor, unless indicated otherwise; H-index = 53, Web of Science]

1. Tamboer, J. W. I., Meijer, O. G., & Beek, P. J. (1980). Book review of "Meaning in movement, sport and physical education" (Arnold, P. J., Heinemann, 1979, pp. 200). *Journal of Human Movement Studies*, 6, 188-200. [IF (2007) = 0.056]
2. Beek, P. J., & Beek, W. J. (1988). Tools for constructing dynamical models of rhythmic movement. *Human Movement Science*, 7, 301-342. [IF = 1.928]
3. Beek, P. J., & Beek, W. J. (1989). Stability and flexibility in the temporal organization of movements. *Human Movement Science*, 8, 347-356. [IF = 1.928]
4. Beek, P. J. (1989). Timing and phase locking in cascade juggling. *Ecological Psychology*, 1, 55-96. [IF = 0.861]
5. Beek, P. J., & Bingham, G. P. (1991). Task-specific dynamics and the study of perception and action: A reaction to Von Hofsten (1989). *Ecological Psychology*, 3, 35-54. [IF = 0.861]
6. Beek, P. J., & Bootsma, R. J. (1991). Physical and informational principles in modelling movement behaviour. *Human Movement Science*, 10, 81-92. [IF = 1.928]
7. Schmidt, R. C., Beek, P. J., Treffner, P., & Turvey, M. T. (1991). Dynamical substructure of coordinated rhythmic movement. *Journal of Experimental Psychology: Human Perception and Performance*, 17, 635-651. [IF = 2.287]
8. Toussaint, H. M., & Beek, P. J. (1992). Biomechanics of competitive front crawl swimming. *Sports Medicine*, 13, 8-24. [IF = 6.832]
9. Wimmers, R. H., Beek, P. J., & Van Wieringen, P. C. W. (1992). Phase transitions in rhythmic tracking movements: A case of unilateral coupling. *Human Movement Science*, 11, 217-226. [IF = 1.928]
10. Beek, P. J. (1992). Inadequacies of the proportional duration model: Perspectives from a dynamical analysis of timing in juggling. *Human Movement Science*, 11, 227-237. [IF = 1.928]
11. Beek, P. J., & Van Santvoord, A. A. M. (1992). Learning the cascade juggle: A dynamical systems analysis. *Journal of Motor Behavior*, 24, 85-94. [IF = 1.327]
12. Beek, P. J., Turvey, M. T., & Schmidt, R. C. (1992). Autonomous and nonautonomous dynamics of coordinated rhythmic movements. *Ecological Psychology*, 4, 65-95. [IF = 0.861]

13. Beek, P. J., & Hopkins, B. (1992). Four requirements for a dynamical systems approach to the development of social coordination. *Human Movement Science, 11*, 425-442. [IF = 1.928]
14. Van Ingen Schenau, G. J., Beek, P. J., & Bootsma, R. J. (1992). Is position information alone sufficient for the control of external forces? *Behavioral and Brain Sciences, 15*, 804-805. [no IF, commentary]
15. Beek, P. J., & Turvey, M. T. (1992). Temporal patterning in cascade juggling. *Journal of Experimental Psychology: Human Perception and Performance, 18*, 934-947. [IF = 2.287]
16. Beek, P. J., & Van Wieringen, P. C. W. (1994). Perspectives on the relation between information and dynamics: An epilogue. *Human Movement Science, 13*, 519-533. [IF = 1.928]
17. Van Santvoord, A. A. M., & Beek, P. J. (1994). Phasing and the pick-up of optical information in cascade juggling. *Ecological Psychology, 6*, 239-263. [IF = 1.414]
18. Beek, P. J. (1994). Book Review of "Developing through relationships: Origins of self, communication and culture" (Fogel, A., University of Chicago Press, 1993, pp. 230). *Quarterly Review of Biology, 69*, 575-576. [IF = 4.250]
19. Toussaint, H. M., Commissaris, D. A. C. M., Van Dieën, J. H., Reijnen, J. S., Praet, S. F. E., & Beek, P. J. (1995). A mechanical analysis of maintaining balance during lifting. *Journal of Motor Behavior, 27*, 225-234. [IF = 1.327]
20. Peper, C. E., Beek, P. J., & Van Wieringen, P. C. W. (1995). Coupling strength in tapping a 2:3 polyrhythm. *Human Movement Science, 14*, 217-245. [IF = 1.928]
21. Peper, C. E., Beek, P. J., & Van Wieringen, P. C. W. (1995). Frequency-induced transitions in bimanual tapping. *Biological Cybernetics, 73*, 301-309. [IF = 1.611]
22. Peper, C. E., Beek, P. J., & Van Wieringen, P. C. W. (1995). Multifrequency coordination in bimanual tapping: Asymmetric coupling and signs of supercriticality. *Journal of Experimental Psychology: Human Perception and Performance, 21*, 1117-1138. [IF = 2.287]
23. Beek, P. J., & Lewbel, A. (1995). The science of juggling. *Scientific American, 273(5)*, 92-97. [IF = 1.138]
24. Beek, P. J., Peper, C. E., & Stegeman, D. F. (1995). Dynamical models of movement coordination. *Human Movement Science, 14*, 573-608. [IF = 1.928]
25. Beek, P. J., Schmidt, R. C., Morris, A. W., Sim, M.-Y., & Turvey, M. T. (1995). Linear and nonlinear stiffness and friction in biological rhythmic movements. *Biological Cybernetics, 73*, 499-507. [IF = 1.611]
26. Michaels, C. F., & Beek, P. J. (1995). The status of ecological psychology. *Ecological Psychology, 7*, 259-278. [IF = 1.414]
27. Haken, H. H., Peper, C. E., Beek, P. J., & Daffertshofer, A. (1996). A model for phase transitions in human hand movements during multifrequency tapping. *Physica D, 90*, 179-196. [IF = 1.579]
28. Van Santvoord, A. A. M., & Beek, P. J. (1996). Spatiotemporal variability in cascade juggling. *Acta Psychologica, 91*, 131-151. [IF = 1.816]
29. den Brinker, B. P. L. M., & Beek, P. J. (1996). Reading with magnifiers. *Ergonomics, 39*, 1231-1248. [IF = 1.449]
30. Beek, P. J., Rikkert, W. E. I., & Van Wieringen, P. C. W. (1996). Limit cycle properties of rhythmic forearm movements. *Journal of Experimental Psychology: Human Perception and Performance, 22*, 1077-1093. [IF = 2.287]
31. Van Soest, A. J., & Beek, P. J. (1996). Perceptual-motor coupling in the execution of fast interceptive actions. *Corpus, Psyche et Societas, 3*, 92-101. [no IF]
32. Beek, P. J., Verschoor, F., & Kelso, J. A. S. (1997). Requirements for the emergence of a dynamical social psychology. *Psychological Inquiry, 8*, 100-104. [IF = 6.714]
33. Toussaint, H. M., Commissaris, D. A. C. M., Hoozemans, M. J. M., Ober, M. J., & Beek, P. J. (1997). Anticipatory postural adjustments prior to load pick-up during a bimanual whole body lifting task. *Medicine and Science in Sports and Exercise, 29*, 1208-1215. [IF = 4.041]
34. Toussaint, H. M., Commissaris, D. A. C. M., & Beek, P. J. (1997). Anticipatory postural adjustments in the back and leg lift. *Medicine and Science in Sports and Exercise, 29*, 1216-1224. [IF = 4.041]
35. Van Wieringen, P. C. W., & Beek, P. J. (1997). Distance versus position information in the control of aiming movements. *Behavioral and Brain Sciences, 20*, 323-324. [no IF, commentary]
36. Beek, P. J., Bobbert, M. F., de Groot, G., Hollander, A. P., & de Koning, J. J. (1998). Obituary - in Memory of Gerrit Jan van Ingen Schenau. *Journal of Biomechanics, 31*, R3-R4.
37. Peper, C. E., & Beek, P. J. (1998). Distinguishing between the effects of frequency and amplitude on interlimb coupling in tapping a 2:3 polyrhythm. *Experimental Brain Research, 118*, 78-92. [IF = 2.395]
38. Wimmers, R. H., Beek, P. J., Savelsbergh, G. J. P., Hopkins, B. (1998). Developmental changes in action: Theoretical and methodological issues. *British Journal of Developmental Psychology, 16*, 45-63. [IF = 1.571]
39. Wimmers, R. H., Savelsbergh, G. J. P., Beek, P. J., & Hopkins, B. (1998). Evidence for a phase transition in the early development of prehension. *Developmental Psychobiology, 32*, 235-248. [IF = 2.977]
40. Peper, C. E., & Beek, P. J. (1998). Are frequency-induced transitions in rhythmic coordination mediated by a drop in amplitude? *Biological Cybernetics, 79*, 291-300. [IF = 1.611]
41. Beek, P. J., & Amazeen, E. L. (1998). On the implications of Bernstein's analysis of dexterity for motor control. *Contemporary Psychology: APA Review of Books, 43*, 345-346. [no IF]
42. Beek, P. J., & Meijer, O. G. (1999). Spinal anticipation and cortical corrections: Coordination of movements (1930). *Motor Control, 3*, 2-8. [IF = 1.527]
43. Bullock, D., Bongers, R. M., Lankhorst, M., & Beek, P. J. (1999). A vector-integration-to-endpoint model for performance of viapoint movements. *Neural Networks, 12*, 1-29. [IF = 2.182]
44. Frank, T. D., Daffertshofer, A., Beek, P. J., & Haken, H. (1999). Impacts of noise on a field theoretical model of the human brain. *Physica D, 127*, 233-249. [IF = 1.579]
45. Daffertshofer, A., Van den Berg, C., & Beek, P. J. (1999). A dynamical model for mirror movements. *Physica D, 2253*, 1-24. [IF = 1.579]
46. Peper, C. E., & Beek, P. J. (1999). Modeling rhythmic interlimb coordination: The roles of movement amplitude and time delays. *Human Movement Science, 18*, 263-280. [IF = 1.928]
47. Amazeen, E. L., Amazeen, P. G., Post, A. A., & Beek, P. J. (1999). Timing the selection of visual information during rhythmic catching. *Journal of Motor Behavior, 31*, 279-289. [IF = 1.327]
48. Post, A. A., Daffertshofer, A., & Beek, P. J. (2000). Principal components in three-ball cascade juggling. *Biological Cybernetics, 82*, 143-152. [IF = 1.611]

49. Oudejans, R. D., Verheijen, R., Bakker, F. C., Gerrits, J., Steinbrückner, M., & Beek, P. J. (2000). Errors in judging 'offside' in football. *Nature*, *404*, 33. [IF = 36.280]
50. Daffertshofer, A., Peper, C. E., & Beek, P. J. (2000). Spectral analyses of event-related encephalographic signals. *Physics Letters A*, *266*, 290-302. [IF = 1.632]
51. Beek, P. J. (2000). Toward a theory of implicit learning in the perceptual-motor domain. *International Journal of Sport Psychology*, *31*, 547-554. [IF = 1.034]
52. Frank, T. D., Daffertshofer, A., Peper, C. E., Beek, P. J., & Haken, H. (2000). Towards a comprehensive theory of brain activity: Coupled oscillator systems under external forces. *Physica D*, *144*, 62-86. [IF = 1.579]
53. Van den Berg, C., Beek, P. J., Wagenaar, R. C., & Van Wieringen, P. C. W. (2000). Coordination disorders in patients with Parkinson's disease: A study of paced rhythmic forearm movements. *Experimental Brain Research*, *134*, 174-186. [IF = 2.395]
54. Daffertshofer, A., Frank, T. D., Peper, C. E., & Beek, P. J. (2000). Three pertinent issues in the modelling of brain activity: Nonlinearities, time scales, and neural underpinnings. *Behavioral and Brain Sciences*, *23*, 400-401. [no IF, commentary]
55. Post, A. A., Peper, C. E., Daffertshofer, A., & Beek, P. J. (2000). Relative phase dynamics in perturbed interlimb coordination: Stability and stochasticity. *Biological Cybernetics*, *83*, 443-459. [IF = 1.611]
56. Jagacinski, R. J., Peper, C. E., & Beek, P. J. (2000). Dynamic, stochastic, and topological aspects of polyrhythmic performance. *Journal of Motor Behavior*, *4*, 323-336. [IF = 1.327]
57. Post, A. A., Peper, C. E., & Beek, P. J. (2000). Relative phase dynamics in perturbed interlimb coordination: The effects of frequency and amplitude. *Biological Cybernetics*, *83*, 529-542. [IF = 1.611]
58. Daffertshofer, A., Peper, C. E., Frank, T. D., & Beek, P. J. (2000). Spatiotemporal patterns of encephalographic signals during polyrhythmic tapping. *Human Movement Science*, *19*, 475-498. [IF = 1.928]
59. Frank, T. D., Daffertshofer, A., & Beek, P. J. (2001). Multivariate Ornstein-Uhlenbeck processes with mean field dependent coefficients: Application to postural sway. *Physical Review E*, *63* (Art. No. 011905; article reference only). [IF = 1.816]
60. Frank, T. D., Daffertshofer, A., Peper, C. E., Beek, P. J., & Haken, H. (2001). H-theorem for a mean field describing coupled oscillators under external forces. *Physica D*, *150*, 219-236. [IF = 1.579]
61. Donker, S. F., Beek, P. J., Wagenaar, R. C., & Mulder, T. (2001). Coordination between arm and leg movements during locomotion. *Journal of Motor Behavior*, *33*, 86-102. [IF = 1.327]
62. Frank, T. D., & Beek, P. J. (2001). Stationary solutions of linear stochastic delay differential equations: Applications to biological systems. *Physical Review E*, *64* (Art. No. 021917; article reference only). [IF = 1.816]
63. Peper, C. E., & Beek, P. J. (2001). Direct perception of global invariants is not a fruitful notion. *Behavioral and Brain Sciences*, *24*, 235. [no IF, commentary]
64. Amazeen, E. L., Amazeen, P. G., & Beek, P. J. (2001). Eye movements and the selection of optical information for catching. *Ecological Psychology*, *13*, 71-85. [IF = 0.861]
65. Amazeen, P. G., Amazeen, E. L., & Beek, P. J. (2001). Coupling of breathing and movement during manual wheelchair propulsion. *Journal of Experimental Psychology: Human Perception and Performance*, *27*, 1243-1259. [IF = 2.287]
66. Frank, T. D., Daffertshofer, A., & Beek, P. J. (2001). Interpreting screw displacement apparent motion as a self-organizing process. *Behavioral and Brain Sciences*, *24*, 668. [no IF, commentary]
67. Beek, P. J., Peper, C. E., & Daffertshofer, A. (2002). Modeling rhythmic interlimb coordination. Beyond the Haken-Kelso-Bunz model. *Brain and Cognition*, *48*, 149-165. [IF = 3.174]
68. Kingma, I., Beek, P. J., & Van Dieën, J. H. (2002). The inertia tensor versus static moment and mass in perceiving length and heaviness of hand-wielded rods. *Journal of Experimental Psychology: Human Perception and Performance*, *28*, 180-191. [IF = 2.287]
69. Huys, R., & Beek, P. J. (2002). The coupling between point of gaze and ball movements in three-ball cascade juggling: The effects of expertise, pattern and tempo. *Journal of Sports Sciences*, *20*, 1-16. [IF = 1.800]
70. Dessing, J. C., Bullock, D., Peper, C. E., & Beek, P. J. (2002). Prospective control of manual interceptive actions: Comparative simulations of extant and new model constructs. *Neural Networks*, *15*, 163-179. [IF = 2.182]
71. Lamoth, C., Meijer, O. G., Wuisman, P. I. J. M., Van Dieën, J. H., Levin, M. F., & Beek, P. J. (2002). Pelvis-thorax coordination in the transverse plane during walking in persons with nonspecific low back pain. *Spine*, *27*, E92-E99. [IF = 2.078]
72. Donker, S. F., & Beek, P. J. (2002). Interlimb coordination in prosthetic walking: Effects of asymmetry and walking velocity. *Acta Psychologica*, *110*, 265-288. [IF = 1.816]
73. Frank, T. D., Daffertshofer, A., & Beek, P. J. (2002). Impacts of statistical feedback on the flexibility-accuracy trade-off in biological systems. *Journal of Biological Physics*, *28*, 39-54. [IF = 1.864]
74. Lamoth, C. J. C., Beek, P. J., & Meijer, O. G. (2002). Pelvis-thorax coordination in the transverse plane during gait. *Gait & Posture*, *16*, 101-114. [IF = 2.286]
75. Wu, W. H., Meijer, O. G., Jutte, P. C., Uegaki, K., Lamoth, C. J. C., de Wolf, G. S., Van Dieën, J. H., Wuisman, P. I. J. M., Kwakkel, G., de Vries, J. I. P., & Beek, P. J. (2002). Gait in patients with pregnancy-related pain in the pelvis: An emphasis on the coordination of transverse pelvic and thoracic rotations. *Clinical Biomechanics*, *17*, 678-686. [IF = 2.071]
76. Post, A. A., Peper, C. E., & Beek, P. J. (2003). Effects of visual information and task constraints on intersegmental coordination in playground swinging. *Journal of Motor Behavior*, *35*, 64-78. [IF = 1.327]
77. Huys, R., Daffertshofer, A., & Beek, P. J. (2003). Learning to juggle: On the assembly of functional subsystems into task-specific organizations. *Biological Cybernetics*, *88*, 302-318. [IF = 1.611]
78. Frank, T. D., Beek, P. J., & Friedrich, R. (2003). Fokker-Planck perspective on stochastic delay systems: Exact solutions and data analysis of biological systems. *Physical Review E*, *68*, (Art. No. 021912; article reference only). [IF = 1.816]
79. Beek, P. J., Dessing, J. C., Peper, C. E., & Bullock, D. (2003). Modelling the control of interceptive actions. *Philosophical Transactions B: Biological Sciences. Proceedings of the Royal Society*, *358*, 1511-1523. [IF = 5.415]
80. Kingma, I., Van de Langenberg, R., & Beek, P. J. (2004). Which mechanical invariants are associated with the perception of extent and heaviness of handheld objects? Testing the inertia tensor hypothesis. *Journal of Experimental Psychology: Human Perception and Performance*, *30*, 346-354. [IF = 2.287]
81. Daffertshofer, A., Huys, R., & Beek, P. J. (2004). Dynamical coupling between locomotion and respiration. *Biological Cybernetics*, *90*, 157-164. [IF = 1.611]
82. Huys, R., Daffertshofer, A., & Beek, P. J. (2004). Multiple time scales and multiform dynamics in learning to juggle. *Motor Control*, *8*, 188-212. [IF = 1.527]

83. Daffertshofer, A., Lamoth, C. J. C., Meijer, O. G., & Beek, P. J. (2004). PCA in studying coordination and variability: A tutorial. *Clinical Biomechanics*, *19*, 415-428. [IF = 2.071]
84. Huys, R., Daffertshofer, A., Beek, P. J., Saunderson, D., & Siegmund, G. (2004). Locomotion-respiration coupling: An account of the underlying dynamics. *Journal of Applied Physiology*, *96*, 2341-2342. [IF = 4.235]
85. Wu, W. H., Meijer, O. G., Lamoth, C. J. C., Uegaki, K., Van Dieën, J. H., Harlaar, J., Wuisman, P. I. J. M., de Vries, J. I. P., & Beek, P. J. (2004). Gait coordination in pregnancy: Transverse pelvic and thoracic rotations and their relative phase. *Clinical Biomechanics*, *19*, 480-488. [IF = 2.071]
86. Lamoth, C. J. C., Daffertshofer, A., Meijer, O. G., Moseley, G., Wuisman, P. I. J. M., & Beek, P. J. (2004). Effects of pain and fear of pain on trunk coordination during walking: Method and data. *Clinical Biomechanics*, *19*, 551-563. [IF = 2.071]
87. Frank, T. D., Beek, P. J., & Friedrich, R. (2004). Identifying noise sources of time-delayed feedback systems. *Physics Letters A*, *238*, 219-224. [IF = 1.632]
88. Dessing, J. C., Peper, C. E., & Beek, P. J. (2004). A comparison of real catching with catching using stereoscopic visual displays. *Ecological Psychology*, *16*, 1-21. [IF = 0.861]
89. Beek, P. J., & Peper, C. E. (2004). Perceptual goals matter, but let's not overdo it! *Journal of Motor Behavior*, *36*, 373-375. [IF = 1.327]
90. Van Mourik, A., & Beek, P. J. (2004). Discrete and cyclical movements: Unified dynamics or separate control? *Acta Psychologica*, *117*, 121-138. [IF = 1.816]
91. Ridderikhoff, A., Peper, C. E., Carson, R. G., & Beek, P. J. (2004). Effector dynamics of rhythmic wrist activity and its implications for (modeling) bimanual coordination. *Human Movement Science*, *23*, 285-313. [IF = 1.928]
92. Huys, R., Daffertshofer, A., & Beek, P. J. (2004). Multiple time scales and subsystem dynamics in the learning of juggling. *Human Movement Science*, *23*, 315-336. [IF = 1.928]
93. Peper, C. E., Ridderikhoff, A., Daffertshofer, A., & Beek, P. J. (2004). Explanatory limitations of the HKB model: Incentives for a two-tiered model of rhythmic interlimb coordination. *Human Movement Science*, *23*, 673-697. [IF = 1.928]
94. Dessing, J. C., Caljouw, S., Peper, C. E., & Beek, P. J. (2004). A dynamical neural network for hitting an approaching object. *Biological Cybernetics*, *91*, 377-387. [IF = 1.611]
95. Wing, A. M., & Beek, P. J. (2004). Motion analysis: A joint centenary. *Human Movement Science*, *23*, III-IV. [IF = 1.928]
96. Daffertshofer, A., Peper, C. E., & Beek, P. J. (2005). Stabilization of bimanual coordination due to active interhemispheric inhibition: A theoretical interpretation. *Biological Cybernetics*, *92*, 101-109. [IF = 1.611]
97. Frank, T. D., Friedrich, R., & Beek, P. J. (2005). Identifying and comparing states of time-delayed systems: Phase diagrams and applications to human motor control systems. *Physics Letters A*, *338*, 74-80. [IF = 1.632]
98. Dessing, J. C., Peper, C. E., Bullock, D., & Beek, P. J. (2005). How position, velocity and temporal information combine in the prospective control of catching: Data and model. *Journal of Cognitive Neuroscience*, *17*, 668-686. [IF = 5.357]
99. Atchy-Dalama, P., Peper, C. E., Zanone, P. G., & Beek, P. J. (2005). Movement-related sensory feedback mediates the learning of a new bimanual relative phase pattern. *Journal of Motor Behavior*, *37*, 186-196. [IF = 1.327]
100. Donker, S. F., Daffertshofer, A., & Beek, P. J. (2005). Effects of velocity and limb loading on the coordination between limb movements during walking. *Journal of Motor Behavior*. [IF = 1.327]
101. Ridderikhoff, A., Daffertshofer, A., Peper, C. E., & Beek, P. J. (2005). Mirror EMG activity during unimanual rhythmic movements. *Neuroscience Letters*, *381*, 228-233. [IF = 1.925]
102. Boonstra, T. W., Clairbois, H. E., Daffertshofer, A., Verbunt, J., Van Dijk, B. W., & Beek, P. J. (2005). MEG-compatible force sensor. *Journal of Neuroscience Methods*, *144*, 193-196. [IF = 2.100]
103. Oudejans, R. R. D., Bakker, F. C., Verheijen, R., Gerrits, J. C., Steinbrückner, M., & Beek, P. J. (2005). How position and motion of expert assistant referees in soccer relate to the quality of their offside judgements during actual match play. *International Journal of Sport Psychology*, *36*, 3-21. [IF = 1.034]
104. Frank, T. D., Friedrich, R., & Beek, P. J. (2005). Time series analysis of multivariate time-delayed systems with noise: Applications to laser physics and human movement. *Stochastics and Dynamics*, *5*, 297-306. [IF = 0.714]
105. Roerdink, M., Peper, C. E., & Beek, P. J. (2005). Effects of correct and transformed visual feedback on rhythmic visuo-motor tracking: Tracking performance and visual search behavior. *Human Movement Science*, *24*, 379-402. [IF = 1.928]
106. Huys, R., Williams, A. M., & Beek, P. J. (2005). Visual perception and gaze control in judging versus producing phase relations. *Human Movement Science*, *24*, 403-428. [IF = 1.928]
107. Boonstra, T. W., Daffertshofer, A., & Beek, P. J. (2005). Effects of sleep deprivation on event-related fields and alpha activity during rhythmic force production. *Neuroscience Letters*, *388*, 27-32. [IF = 1.925]
108. Ridderikhoff, A., Peper, C. E., & Beek, P. J. (2005). Unraveling interlimb interactions underlying bimanual coordination. *Journal of Neurophysiology*, *94*, 3112-3125. [IF = 3.114] DOI:10.1152/jn.01077.2004
109. Frank, T. D., & Beek, P. J. (2005). Fokker-Planck equations for globally coupled many-body systems with time delays. *Journal of Statistical Mechanics: Theory and Experiment*, *10*, Art. No. P10010 (first page reference only). [no IF]
110. Selen, L. P. J., Beek, P. J., & Van Dieën, J. H. (2005). Can co-activation reduce kinematic variability? A simulation study. *Biological Cybernetics*, *93*, 373-381 [IF = 1.611]
111. Lamoth, C. J. C., Daffertshofer, A., Meijer, O. G., & Beek, P. J. (2006). How do persons with chronic low back pain speed up and slow down? Trunk-pelvis coordination and lumbar erector spinae activity during gait. *Gait & Posture*, *23*, 230-239. [IF = 1.585] [ESMAC 2004 Best Paper Award]
112. de Poel, H. J., Peper, C. E., & Beek, P. J. (2006). Intentional switches between bimanual coordination patterns are primarily effectuated by the non-dominant hand. *Motor Control*, *10*, 7-23. [IF = 1.527]
113. Van Mourik, A. M., Daffertshofer, A., & Beek, P. J. (2006). Estimating Kramers-Moyal coefficients in short and non-stationary data sets. *Physics Letters A*, *351*, 13-17. [IF = 1.632]
114. Lamoth, C. J. C., Meijer, O. G., Daffertshofer, A., Wuisman, P. I. J. M., & Beek, P. J. (2006). Effects of chronic low back pain on trunk coordination and back muscle activity during walking: Changes in motor control. *European Spine Journal*, *15*, 23-40. [IF = 1.994]
115. Patanarapeelert, K., Frank, T. D., Friedrich, R., Beek, P. J., & Tang, I. M. (2006). Theoretical analysis of destabilization resonances in time-delay stochastic second-order dynamical systems and some implications for human motor control. *Physical Review E*, *73* (Art. No. 021901; article reference only). [IF = 1.816]

116. Van Mourik, A. M., Daffertshofer, A., & Beek, P. J. (2006). Deterministic and stochastic features of rhythmic human movement. *Biological Cybernetics*, *94*, 233-244. [IF = 1.611]
117. Ridderikhoff, A., Peper, C. E., & Beek, P. J. (2006). Bilateral phase entrainment by movement-elicited afference contributes equally to the stability of in-phase and antiphase coordination. *Neuroscience Letters*, *399*, 71-75. [IF = 2.055]
118. Selen, L. P. J., Beek, P. J., & Van Dieën, J. H. (2006). Impedance is modulated to meet accuracy demands during goal directed arm movements. *Experimental Brain Research*, *172*, 129-138. [IF = 2.395]
119. Ponsen, M. M., Daffertshofer, A., Van den Heuvel, E., Wolters, E. Ch., Beek, P. J., & Berendse, H. W. (2006). Bimanual coordination dysfunction in early, untreated Parkinson's disease. *Parkinsonism & Related Disorders*, *12*, 246-252. [IF = 3.245]
120. de Oliveira, R. F., Oudejans, R. R. D., & Beek, P. J. (2006). Late information pick-up is preferred in basketball jump shooting. *Journal of Sports Sciences*, *24*, 933-940. [IF = 1.800]
121. Roerdink, M., de Haart, M., Donker, S. F., Daffertshofer, A., Geurts, A. C. H., & Beek, P. J. (2006). Dynamical structure of center-of-pressure trajectories in stroke patients during rehabilitation. *Experimental Brain Research*, *174*, 256-269. DOI: 10.1007/s00221-006-0441-7. [IF = 2.395]
122. Boonstra, T. W., Daffertshofer, A., Peper, C. E., & Beek, P. J. (2006). Amplitude and phase dynamics associated with acoustically-paced finger tapping. *Brain Research*, *1109*, 60-69. [IF = 2.623]
123. Pijpers, J. R., Oudejans, R. R. D., Bakker, F. C., & Beek, P. J. (2006). The role of anxiety in perceiving and realizing affordances. *Ecological Psychology*, *18*, 131-161. [IF = 0.861]
124. Van de Langenberg, R., Kingma, I., & Beek, P. J. (2006). Mechanical invariants are implicated in dynamic touch as a function of their salience in the stimulus flow. *Journal of Experimental Psychology: Human Perception and Performance*, *32*, 1093-1106. [IF = 2.287]
125. Patanarapeelert, K., Frank, T. D., Friedrich, R., Beek, P. J., & Tang, I. M. (2006). A data analysis method for identifying deterministic components of stable and unstable time delayed systems with colored noise. *Physics Letters A*, *360*, 190-198. [IF = 1.632] DOI:10.1016/j.physleta.2006.08.003
126. Selen, L., Van Dieën, J. H., & Beek, P. J. (2006). Impedance modulation and feedback corrections in tracking targets of variable size and frequency. *Journal of Neurophysiology*, *96*, 2750-2759. [IF = 3.853] DOI:10.1152/jn.00552.0556
127. Frank, T. D., Friedrich, R., & Beek, P. J. (2006). Stochastic order parameter equation of isometric force production revealed by drift-diffusion estimates. *Physical Review E*, *74* (Art. No. 051905; article reference only). [IF = 1.816] DOI:10.1103/PhysRevE.74.051905
128. de Poel, H. J., Peper, C. E., & Beek, P. J. (2007). Handedness-related asymmetry in coupling strength in bimanual coordination: Furthering theory and evidence. *Acta Psychologica*, *124*, 209-237. [IF = 1.816]
129. Boonstra, T. W., Daffertshofer, A., Van As, E., Van der Vlugt, S., & Beek, P. J. (2007). Bilateral motor unit synchronization is functionally organized. *Experimental Brain Research*, *178*, 79-88. [IF = 2.395]
130. Vardy, A. N., Daffertshofer, A., Ridderikhoff, A., & Beek, P. J. (2007). Differential after-effects of bimanual activity on mirror movements. *Neuroscience Letters*, *12*, 117-122. [IF = 2.055]
131. Oudejans, R. R. D., Bakker, F. C., & Beek, P. J. (2007). Helsen, Gillis, and Weston (2006) err in testing the optical error hypothesis. *Journal of Sports Sciences*, *25*, 987-990. [IF = 1.800]
132. Boonstra, T. W., Daffertshofer, A., Breakspear, M., & Beek, P. J. (2007). Multivariate time-frequency analysis of electromagnetic brain activity during bimanual motor learning. *NeuroImage*, *36*, 370-377. [IF = 5.937]
133. Boonstra, T. W., Stins, J. F., Daffertshofer, A., & Beek, P. J. (2007). Effects of sleep deprivation on neural functioning: An integrative review. *Cellular and Molecular Life Sciences*, *64*, 934-946. [IF = 6.570]
134. de Oliveira, R. F., Huys, R., Oudejans, R. R. D., & Beek, P. J. (2007). Basketball jump shooting is controlled on-line by vision. *Experimental Psychology*, *54*, 180-186. [IF = 2.222]
135. Post, A. A., de Groot, G., Daffertshofer, A., & Beek, P. J. (2007). Pumping a playground swing. *Motor Control*, *11*, 136-150. [IF = 1.527]
136. Van de Langenberg, R., Kingma, I., & Beek, P. J. (2007). Perception of limb orientation in the vertical plane depends on center of mass rather than inertial eigenvectors. *Experimental Brain Research*, *180*, 595-607. [IF = 2.395]
137. Donker, S. F., Roerdink, M., Greven, A. J., & Beek, P. J. (2007). Regularity of center-of-pressure trajectories depends on the amount of attention invested in postural control. *Experimental Brain Research*, *181*, 1-11. [IF = 2.395]
138. Ridderikhoff, A., Peper, C. E., & Beek, P. J. (2007). Error correction in bimanual coordination benefits from bilateral muscle activity: Evidence from kinesthetic tracking. *Experimental Brain Research*, *181*, 31-48. [IF = 2.395]
139. Selen, L. P., Beek, P. J., & Van Dieën, J. H. (2007). Fatigue-induced changes of impedance and performance in target tracking. *Experimental Brain Research*, *181*, 99-108. [IF = 2.395]
140. Koedijker, J. M., Oudejans, R. R. D., & Beek, P. J. (2007). Explicit rules and direction of attention in learning and performing the table tennis forehand. *International Journal of Sport Psychology*, *38*, 227-244. [IF = 1.034]
141. Roerdink, M., Lamoth, C. J. C., Kwakkel, G., Van Wieringen, P. C. W., & Beek, P. J. (2007). Gait coordination after stroke: Benefits of acoustically paced treadmill walking. *Physical Therapy*, *87*, 1009-1022. [IF = 2.587]
142. Dessing, J. C., Daffertshofer, A., Peper, C. E., & Beek, P. J. (2007). Stability and error correction in 'sync' and 'async' four ball juggling. *Journal of Motor Behavior*, *39*, 433-446. [IF = 1.327]
143. Wilmer, A., Frank, T. D., Beek, P. J., & Friedrich, R. (2007). A data-analysis method for identifying differential effects of time-delayed feedback forces and periodic driving forces in stochastic systems. *European Physics Journal B*, *60*, 203-215. [IF = 1.575]
144. Stins, J. F., & Beek, P. J. (2007). Effects of picture viewing on postural control. *BMC Neuroscience*, *8*, Art. No. 83 (e-journal). [IF = 3.091]
145. Roerdink, M., Ophoff, E. D., Peper, C. E., & Beek, P. J. (2008). Visual and musculoskeletal underpinnings of anchoring in rhythmic visuo-motor tracking. *Experimental Brain Research*, *148*, 143-156. [IF = 2.395]
146. Donker, S. F., Ledebt, A., Roerdink, M., Savelsbergh, G. J. P., & Beek, P. J. (2008). Children with cerebral palsy exhibit greater and more regular sway than typically developing children. *Experimental Brain Research*, *148*, 363-370. [IF = 2.395]
147. de Poel, H. J., Peper, C. E., & Beek, P. J. (2008). Laterally focused attention modulates asymmetric coupling in rhythmic interlimb coordination. *Psychological Research*, *72*, 123-137. [IF = 1.952]
148. Oudejans, R. R. D., Koedijker, J. M., & Beek, P. J. (2008). An outside view on Wulf's external focus of attention: Three recommendations. *Bewegung und Training* (E-journal). [no IF]

149. Van Ulzen, N. R., Semin, G. R., Oudejans, R. R., & Beek, P. J. (2008). Affective stimulus properties influence size perception and the Ebbinghaus illusion. *Psychological Research*, *72*, 304-310. [IF = 1.952]
150. Van Ulzen, N. R., Lamoth, C. J. C., Daffertshofer, A., Semin, G. R., & Beek, P. J. (2008). Characteristics of instructed and uninstructed interpersonal coordination while walking side-by-side. *Neuroscience Letters*, *432*, 88-93. [IF = 2.055]
151. Ponsen, M. M., Daffertshofer, A., Wolters, E. Ch., Beek, P. J., & Berendse, H. (2008). Impairment of complex upper limb motor function in *de novo* Parkinson's disease. *Parkinsonism & Related Disorders*, *14*, 199-204. [IF = 3.245]
152. Lamoth, C. J. C., Stins, J. F., Pont, M., Kerckhoff, F., & Beek, P. J. (2008). Effects of attention on the control of locomotion in individuals with chronic low back pain. *Journal of Neuroengineering and Rehabilitation*, *5*, Art. No. 13 (E-journal). [IF = 2.115]
153. Peper, C. E., de Boer, B. J., de Poel, H. J., & Beek, P. J. (2008). Interlimb coupling strength scales with movement amplitude. *Neuroscience Letters*, *437*, 10-14. [IF = 2.055]
154. Van Mourik, A. M., Daffertshofer, A., & Beek, P. J. (2008). Extracting dynamics from the stochastics of rhythmic forearm movements. *Journal of Motor Behavior*, *40*, 214-231. [IF = 1.327]
155. Frank, T. D., Patanarapeelert, K., & Beek, P. J. (2008). Portfolio theory of optimal isometric force production: Variability predictions and nonequilibrium fluctuation-dissipation theorem. *Physics Letters A*, *372*, 3562-3568. [IF = 1.632]
156. Houweling, S., Daffertshofer, A., Van Dijk, B. W., & Beek, P. J. (2008). Neural changes induced by learning a challenging perceptual-motor task. *NeuroImage*, *41*, 1395-1407. [IF = 5.457]
157. Van de Langenberg, R., Kingma, I., & Beek, P. J. (2008). The perception of limb orientation depends on the center of mass. *Journal of Experimental Psychology: Human Perception and Performance*, *34*, 624-639. [IF = 2.287]
158. Roerdink, M., Coolen, H., Clairbois, H. C., Lamoth, C. J. C., & Beek, P. J. (2008) Online gait event detection using a large force platform embedded in a treadmill. *Journal of Biomechanics*, *41*, 2628-2632. [IF = 2.740] DOI: 10.1016/j.jbiomech.2008.0.023
159. Boonstra, T. W., Daffertshofer, A., Van Ditshuisen, J. C., Van den Heuvel, M. R. C., C. Hofman, N. W. Willigenburg, & P. J. Beek (2008). Fatigue-related changes in motor-unit synchronization of quadriceps muscles within and across legs. *Journal of Electromyography and Kinesiology*, *18*, 717-731. [IF = 1.995]
160. Wu, W., Meijer, O. G., Bruijn, S. M., Hu, H., Van Dieën, J. H., Lamoth, C. J. C., Van Royen, B. J., & Beek, P. J. (2008). Gait in Pregnancy-related Pelvic girdle Pain (PPP): Amplitudes, timing, and coordination of horizontal trunk rotations. *European Spine Journal*, *17*, 1160-1169. [IF = 2.396]
161. de Oliveira, R. F., Oudejans, R. R. D., & Beek, P. J. (2008). Gaze behavior in basketball shooting: Further evidence for online visual control. *Research Quarterly for Exercise and Sport*, *79*, 399-404. [IF = 1.103]
162. Huys, R., Smeeton, N. J., Hodges, N. J., Beek, P. J., & Williams, A. M. (2008). On the dynamical information underlying visual anticipation skill in perceiving tennis shots. *Perception and Psychophysics*, *70*, 1217-1234. [IF = 1.864]
163. Koedijker, J. M., Oudejans, R. R. D., & Beek, P. J. (2008). Rule formation and table tennis performance following explicit and analogy learning over 10,000 repetitions. *International Journal of Sport Psychology*, *39*, 237-256. [IF = 1.931]
164. Boonstra, T. W., Roerdink, M., Daffertshofer, A., Van Vugt, B., Van Werven, G., & Beek, P. J. (2008). Low-alcohol doses reduce common 10-15 Hz input to bilateral leg muscles during quiet standing. *Journal of Neurophysiology*, *100*, 2158-2164. [IF = 3.648]
165. Ridderikhoff, A., Peper, C. E., & Beek, P. J. (2008). Attentional loads associated with interlimb interactions underlying rhythmic bimanual coordination. *Cognition*, *109*, 372-388. [IF = 3.562]
166. Vardy, A. N., Daffertshofer, A., & Beek, P. J. (2009). Tapping with intentional drift. *Experimental Brain Research*, *192*, 615-625.
167. Dessing, J. C., Oostwoud Wijdenes, L., Peper, C. E., & Beek, P. J. (2009). Adaptations of lateral hand movements to early and late visual occlusion in catching. *Experimental Brain Research*, *192*, 669-682. [IF = 2.395]
168. Boonstra, T. W., Daffertshofer, A., Roerdink, M., Flipse, I., Groenewoud, K., & Beek, P. J. (2009). Bilateral motor unit synchronization of leg muscles during a simple dynamic balance task. *European Journal of Neuroscience*, *29*, 613-622. [IF = 3.418]
169. Huys, R., Cañal-Bruland, R., Hagemann, N., Beek, P. J., Smeeton, N. J., & Williams, A. M. (2009). Global information pick up underpins anticipation of tennis shot direction. *Journal of Motor Behavior*, *41*, 158-170. [IF = 1.327]
170. Roerdink, M., Geurts, A. C. H., de Haart, M., & Beek, P. J. (2009). On the relative contribution of the paretic leg to the control of posture after stroke. *Neurorehabilitation and Neural Repair*, *23*, 267-274. [IF = 4.495]
171. Beek, P. J. (2009). Ecological approaches to sport psychology: Prospects and challenges. *International Journal of Sport Psychology*, *40*, 144-151. [IF = 1.034]
172. Kistemaker, D. A., Faber, H., & Beek, P. J. (2009). Catching fly balls: A simulation of the Chapman strategy. *Human Movement Science*, *28*, 236-249. [IF = 1.928]
173. Van den Heuvel, M. R. C., Balasubramaniam, R., Daffertshofer, A., Longtin, A., & Beek, P. J. (2009). Delayed visual feedback reveals distinct time scales in balance control. *Neuroscience Letters*, *452*, 37-41. [IF = 2.055]
174. Bruijn, S. M., Van Dieën, J. H., Meijer, O. G., & Beek, P. J. (2009). Statistical precision and sensitivity of measures of dynamic gait stability. *Journal of Neuroscience Methods*, *178*, 327-333. [IF = 2.100]
175. Lamoth, C. J. C., Van Lummel, R. C., A., & Beek, P. J. (2009). Athletic skill level is reflected in body sway: A test case for accelerometry in combination with stochastic dynamics. *Gait & Posture*, *29*, 546-551. [IF = 2.286]
176. de Oliveira, R. F., Oudejans, R. R. D., & Beek, P. J. (2009). Experts appear to use angle of elevation in basketball shooting. *Journal of Experimental Psychology: Human Perception and Performance*, *35*, 750-761. [IF = 2.287]
177. de Poel, H. J., Peper, C. E., & Beek, P. J. (2009). Disentangling the effects of attentional and amplitude asymmetries on relative phase dynamics, *35*, 762-777, *Journal of Experimental Psychology: Human Perception and Performance*. [IF = 2.287]
178. Stins, J. F., Michielsen, M., Roerdink, M., & Beek, P. J. (2009). Sway regularity reflects attentional involvement in postural control: Effects of expertise, vision and cognition. *Gait & Posture*, *30*, 106-109. [IF = 2.743]
179. Dessing, J. C., Oostwoud Wijdenes, L., Peper, C. E., & Beek, P. J. (2009). Visuomotor transformation for interception: Catching while fixating. *Experimental Brain Research*, *196*, 511-527. [IF = 2.395]
180. Bruijn, S. M., Van Dieën, J. H., Meijer, O. G., & Beek, P. J. (2009). Is slow walking more stable? *Journal of Biomechanics*, *42*, 1506-1512. [IF = 2.740] DOI: 10.1016/j.jbiomech.2008.0.023
181. Lamoth, C. J. C., Daffertshofer, A., Huys, R., & Beek, P. J. (2009). Steady and transient coordination structures of walking and running. *Human Movement Science*, *28*, 371-386. [IF = 1.928] DOI: 10.1016/j.humov.2009.03.047.
182. Roerdink, M., Lamoth, C. J. C., Van Kordelaar, J., Elich, P., Konijnenbelt, M., Kwakkel, G., & Beek, P. J. (2009). Rhythm perturbations in acoustically-paced treadmill walking after stroke. *Neurorehabilitation and Neural Repair*, *23*, 668-678. [IF = 4.495]

183. Emck, C., Bosscher, R. J., Beek, P. J., Doreleijers, Th. (2009). Gross motor performance and self-perceived motor competence of children with psychiatric disorders. A review. *Developmental Medicine and Child Neurology*, *51*, 501-517. [IF = 3.019] DOI: 10.1111/j.1469-8749.2009.03337.x
184. Stins, J. F., Ledebt, A., Emck, C., Van Dokkum, E. H., & Beek, P. J. (2009). Patterns of postural sway in high anxious children. *Behavioral and Brain Functions*, *5*, 42. (E-journal). [IF = 2.336] DOI:10.1186/1744-9081-5-42.
185. Swart, K., Stins, J., & Beek, P. J. (2009). Cortical changes in complex regional pain syndrome (CRPS). *European Journal of Pain*, *13*, 902-907. [IF = 3.210] DOI: 10.1016/j.ejpain.2008.11.010
186. Van Delden, A. E. Q., Peper, C. E., Kwakkel, G., Harlaar, J., Daffertshofer, A., Zipp, N., Nienhuys, K., Koppe, P., & Beek, P. J. (2009). Comparing unilateral and bilateral upper limb training: The ULTRA-stroke program design. *BMC Neurology*, *9*, Article Number 57. [IF = 2.109] DOI:10.1186/1471-2377-9-57.
187. Stins, J.F., Ledebt, A., Emck, C., Van Dokkum, & Beek, P.J. (2009). Patterns of postural sway in high anxious children. *Behavioral and Brain Functions*, *5*, 42.
188. Houweling, S., Van Dijk, B. W., Beek, P. J., & Daffertshofer, A. (2010). Cortico-spinal synchronization reflects changes in performance when learning a complex bimanual task. *NeuroImage*, *49*, 3269-3275. [IF = 5.937] DOI:10.1016/j.neuroimage.2009.11.017
189. Houweling, S., Beek, P. J., & Daffertshofer, A. (2010). Spectral changes of interhemispheric cross-talk accompanying movement instabilities. *Cerebral Cortex*, *20*, 2605-2613. [IF = 6.979] DOI:10.1093/cercor/bhq008
190. Van Ulzen, N. R., Lamothe, C. J. C., Daffertshofer, A., Semin, G. R., & Beek, P. J. (2010). Stability and variability of acoustically specified coordination patterns while walking side-by-side on a treadmill: Does the seagull effect hold? *Neuroscience Letters*, *474*, 79-83. [IF = 2.055] DOI:10.1016/j.neulet.2010.03.008
191. Bruijn, S. M., ten Kate, W. R. Th., Faber, G. S., Meijer, O. G., Beek, P. J., & Van Dieën, J. H. (2010). Estimating dynamic gait stability using data from non-aligned inertial sensors. *Annals of Biomedical Engineering*, *38*, 2588-2593. [IF = 2.368]
192. Koedijker, J. M., Oudejans, R. R. D., & Beek, P. J. (2010). Interference effects in learning similar sequences of discrete movements. *Journal of Motor Behavior*, *195*, 209-222. [IF = 1.327]
193. Van Soest, A. J., Casius, R., de Kok, W., Krijger, M., Meeder, M., & Beek, P. J. (2010). Are fast interceptive actions continuously guided by vision? Revisiting Bootsma and Van Wieringen (1990). *Journal of Experimental Psychology: Human Perception and Performance*, *36*, 1040-1055. [IF = 2.287]
194. Van Soest, A. J., & Beek, P. J. (2010). Similar findings, different interpretations: A response to the commentary by Bootsma et al. (2010). *Journal of Experimental Psychology: Human Perception and Performance*, *36*, 1064-1066. [IF = 2.287]
195. Feijen, L., Hodges, N. J., & Beek, P. J. (2010). Guiding a proprioceptive solution for acquiring a novel coordination skill: Experience of the correct motor commands is not needed for learning. *Journal of Motor Behavior*, *42*, 295-306. [IF = 1.327] DOI:10.1080/00222895.2010.504760
196. Debats, N. B., Van de Langenberg, R., Kingma, I., Smeets, J. B. J., & Beek, P. J. (2010). Exploratory movements determine cue weighting in haptic length perception of handheld rods. *Journal of Neurophysiology*, *104*, 2821-2830. [IF = 3.316]
197. Bruijn, S. M., Meijer, O. G., Beek, P. J., & Van Dieën, J. H. (2010). The effects of arm swing on human gait stability. *Journal of Experimental Biology*, *213*, 3945-3952. [IF = 2.996]
198. Emck, C., Bosscher, R. J., Van Wieringen, P. C. W., Doreleijers, Th., & Beek, P. J. (2011). Gross motor performance and physical fitness in children with psychiatric disorders. *Developmental Medicine and Child Neurology*, *53*, 150-155. [IF = 2.918] DOI: 10.1111/j.1469-8749.2010.03806.x
199. Roerdink, M., & Beek, P. J. (2011). Understanding inconsistent step-length asymmetries across hemiplegic stroke patients: Impairments and compensatory gait. *Neurorehabilitation and Neural Repair*, *25*, 253-258. [IF = 4.495] DOI: 10.1177/1545968310380687
200. Koedijker, J. M., Poolton, J. M., Maxwell, J. P., Oudejans, R. D., Beek, P. J., & Masters, R. S. W. (2011). Attention and time constraints in perceptual-motor learning and performance: Instruction, analogy, and skill level. *Consciousness and Cognition*, *20*, 245-256. [IF = 2.308] DOI: 10.1016/j.concog.2010.08.002
201. de Boer, B. J., Peper, C. E., & Beek, P. J. (2011). Frequency-induced changes in interlimb interactions: Increasing manifestations of closed-loop control. *Behavioural and Brain Research*, *16*, 202-214. [IF = 3.417] DOI: 10.1016/j.bbr.2011.01.057
202. Vardy, A. N., Van Wegen, E. E., Kwakkel, G., Berendse, H. W., Beek, P. J., & Daffertshofer, A. (2011). Slowing of M1 activity in Parkinson's disease during rest and movement – An EMG study. *Clinical Neurophysiology*, *122*, 789-795. [IF = 3.406] DOI: 10.1016/j.clinph.2010.10.034
203. Roerdink, M., Bank, P. J. M., Peper, C. E., & Beek, P. J. (2011). Walking to the beat of different drums: Practical implications for the use of acoustic rhythms in gait rehabilitation. *Gait & Posture*, *33*, 690-694. [IF = 2.286] DOI: 10.1016/j.gaitpost.2011.03.001
204. Stins, J. F., Roelofs, K., Villan, J., Kooijman, K., Hagenaars, M. A., & Beek, P. J. (2011). Walk to me when I smile, step back when I'm angry: Emotional faces modulate whole-body approach-avoidance behaviors. *Experimental Brain Research*, *212*, 603-611. [IF = 2.395] DOI: 10.1007/s00221-011-2767-z
205. Stins, J., Roerdink, M., & Beek, P. J. (2011). To freeze or not to freeze? Affective and cognitive perturbations have markedly different effects. *Human Movement Science*, *30*, 190-202. [IF = 1.928] DOI: 10.1016/j.humov.2010.05.013.
206. Stins, J. F., & Beek, P. J. (2011). Organization of voluntary stepping in response to emotion-inducing pictures. *Gait & Posture*, *34*, 164-168. [IF = 2.286]
207. Bruijn, S. M., Bregman, D. J. J., Meijer, O. G., Beek, P. J., & Van Dieën, J. H. (2011). The validity of stability measures: A modelling approach. *Journal of Biomechanics*, *44*, 2401-2408. [IF = 2.740] DOI: 10.1016/j.jbiomech.2011.06.031
208. Dessing, J. C., Rey, F. R., & Beek, P. J. (2012). Gaze fixation improves the stability of expert juggling. *Experimental Brain Research*, *216*, 635-644. [IF = 2.395] DOI: 10.1007/s00221-011-2967-6.
209. Stins, J. F., & Beek, P. J. (2012). A critical evaluation of the cognitive penetrability of posture. *Experimental Aging Research*, *38*, 208-219. [IF = 1.306] DOI: 10.1080/0361073X.2012.660053
210. Roerdink, M., Roeles, S., Van der Pas, S., Bosboom, O., & Beek, P. J. (2012). Evaluating asymmetry in prosthetic gait with step-length asymmetry alone is flawed. *Gait & Posture*, *35*, 446-451. [IF = 2.286]. DOI:10.1016/j.gaitpost.2011.11.005
211. Van Delden, L., Peper, L., Beek, P. J., & Kwakkel, G. (2012). Unilateral versus bilateral upper limb exercise therapy after stroke: A systematic review. *Journal of Rehabilitation Medicine*, *44*, 106-117. [IF = 1.895]. DOI: 10.2340/16501977-0928
212. Emck, C., Bosscher, R. J., Van Wieringen, P. C. W., Doreleijers, Th., & Beek, P. J. (2012). Psychiatric symptoms in children with gross motor problems. *Adapted Physical Activity Quarterly*, *29*, 161-178. [IF = 1.487].

213. Bruijn, S. M., Bregman, D. J. J., Meijer, O. G., Beek, P. J., & Van Dieën, J. H. (2012). Maximum Lyapunov exponents as predictors of global gait stability: A modelling approach. *Medical Engineering & Physics*, *34*, 428-436. [IF = 1.623]. DOI: 10.1016/j.medengphy.2011.07.024
214. Hak, L., Houdijk, H., Steenbrink, F., Mert, A., Van der Wurff, P., Beek, P. J., & Van Dieën, J. H. (2012). Speeding up or slowing down? Gait adaptations to preserve gait stability in response to balance perturbations. *Gait & Posture*, *36*, 260-264. [IF = 2.286].
215. Van Wijk, B. C. M., Beek, P. J., & Daffertshofer, A. (2012). Differential modulations of ipsilateral and contralateral beta (de)synchronization during unimanual force production. *European Journal of Neuroscience*, *36*, 2088-2097. [IF = 3.631].
216. Van Wijk, B. C. M., Beek, P. J., & Daffertshofer, A. (2012). Neural synchrony within the motor system: What have we learned so far? *Frontiers in Human Neuroscience*, *6*, 252. [IF = 2.339]
217. Debats, N. B., Kingma, I., & Beek, P. J., & Smeets, J. B. J. (2012). Moving the Weber fraction: The perceptual precision for moment of inertia increases with exploration. *Plos One*, *7*(9): e42941. DOI:10.1371/journal.pone.0042941. [IF = 3.057]
218. Van Lummel, R. C., Ainsworth, E., Hausdorff, J. M., Lindemann, U., Beek, P. J., & Van Dieën, J. H. (2012). Validation of seat-off and seat-on in repeated sit-to-stand movements using a single body fixed sensor. *Physiological Measurement*, *33*, 1855-1867. [IF = 1.677]
219. De Boer, B. J., Peper, C. E., & Beek, P. J. (2012). Development of temporal and spatial bimanual coordination during childhood. *Motor Control*, *16*, 537-559. [IF = 1.527]
220. Van Delden, L., Peper, L., Kwakkel, G., & Beek, P. J. (2012). A systematic review of bilateral upper limb training devices for poststroke rehabilitation. *Stroke Research and Treatment*, 2012:972069, DOI:10.1155/2012/972069.
221. Bank, P. J. M., Peper, C. E., Marinus, J., Beek, P. J., & Van Hilten, J. J. (2013). Motor consequences of experimentally induced pain: A systematic review. *European Journal of Pain*, *17*, 145-157. [IF = 3.939] DOI: 10.1002/j.1532-2149.2012.00186.x.
222. De Boer, B. J., Peper, C. E., & Beek, P. J. (2013). Learning a new bimanual coordination pattern: Interlimb interactions, attentional focus, and transfer. *Journal of Motor Behavior*, *45*, 65-77. DOI: 10.1080/00222895.2012.744955
223. Bruijn, S. M., Meijer, O. G., Beek, P. J., & Van Dieën, J. H. (2013). Assessing the stability of human locomotion: A review of current measures. *Journal of The Royal Society Interface*, *10*(83): 2120999. [IF = 4.402] DOI: 10.1098/rsif.2012.0999
224. Hak, L., Houdijk, H., Steenbrink, F., Mert, A., van der Wurff, P., Beek, P. J., & van Dieën, J. H. (2013). Stepping strategies for regulating gait adaptability and stability. *Journal of Biomechanics*, *46*, 905-911. [IF = 2.740] DOI: 10.1016/j.jbiomech.2012.12.017
225. Van Delden, L., Peper, L., Beek, P. J., & Kwakkel, G. (2013). Match and mismatch between objective and subjective improvements in upper limb function after stroke. *Disability and Rehabilitation*, *35*, 1961-1967. DOI: 10.3109/09638288.2013.768303.
226. Roerdink, M., Bank, L., Peper, C. E., & Beek, P. J. (2013) Anchoring in rhythmic in-phase and antiphase visuomotor tracking. *Motor Control*, *17*, 176-189. [IF = 1.527]
227. Roerdink, M., Ridderikhoff, A., Peper, C. E., & Beek, P. J. (2013). Informational and neuromuscular contributions to anchoring in rhythmic wrist cycling. *Annals of Biomedical Engineering*, *41*, 1726-1739. [IF = 2.368] DOI: 10.1007/s10439-012-0680-7.
228. Stins, J. F., & Beek, P. J. (2013). Effects of language processing on spontaneous muscle activity. *Journal of Neurolinguistics*, *26*, 363-369. [IF = 1.965] DOI: 10.1016/j.jneuroling.2012.12.001
229. Van Ooijen, M. W., Roerdink, M., Trekop, M., Visschedijk, J., Janssen, T. W. J., & Beek, P. J. (2013). Functional gait rehabilitation in elderly people following a fall-related hip fracture using a treadmill with visual context: Desing of a randomized controlled trial. *BMC Geriatrics*, *13*(34). [IF = 2.000] DOI: 10.1186/1471-2318-13-34.
230. Heeren, A., Van Ooijen, M., Geurts, A., Janssen, T. W. J., Beek, P. J., Roerdink, M., Weerdesteyn, V. (2013). Step by step: a proof of concept study of C-mill gait adaptability training in the chronic phase after stroke. *Journal of Rehabilitation Medicine*, *45*, 616-622. [IF = 1.895] DOI: 10.2340/16501977-1180.
231. Bank, P. J. M., Peper, C. E., Marinus, J., Beek, P. J., & Van Hilten, J. J. (2013). Deficient muscle activation in patients with Complex Regional Pain Syndrome and abnormal hand postures: An electromyographic evaluation. *Clinical Neurophysiology*, *124*, 2025-2035. [IF = 3.406] DOI: 10.1016/j.clinph.2013.03.029.
232. IJmker, T., Houdijk, H., Lamoth, C. J. C., Jarbandhan, A., Rijntjes, D., Beek, P. J., & van der Woude, L. H. V. (2013). Effect of balance support on the energy cost of walking after stroke. *Archives of Physical Medicine and Rehabilitation*, *94*, 2255-2261. [IF = 2.284]
233. Van Delden, A. E. Q., Peper, C. E., Nienhuys, K. N., Zipp, N. I., Beek, P. J., & Kwakkel, G. (2013). Unilateral versus bilateral upper limb training after stroke: The ULTRA-Stroke randomized controlled clinical trial. *Stroke*, *44*, 2613-2616. DOI: 10.1161/STROKEAHA.113.001969.
234. De Boer, B. J., Peper, C. E., A. Ridderikhoff, & Beek, P. J. (2013). Phase entrainment strength scales with movement amplitude disparity. *Motor Control*, *17*, 399-411. [IF = 1.527]
235. Schreven, S., Toussaint, H. M., Smeets, J. B. J., & Beek, P. J. (2013). The effect of different inter-pad distances on the determination of active drag using the Measuring Active Drag System. *Journal of Biomechanics*, *46*, 1933-1937. [IF = 2.740] DOI: 10.1016/j.jbiomech.2013.05.020
236. IJmker, T., Houdijk, H., Lamoth, C. J. C., Beek, P. J., & van der Woude, L. H. V. (2013). Energy cost of balance control during walking decreases with external stabilizer stiffness independent of walking speed. *Journal of Biomechanics*, *46*, 2109-2114. DOI: 10.1016/j.jbiomech.2013.07.005.
237. Bank, P. J. M., Peper, C. E., Marinus, J., Beek, P. J., & Van Hilten, J. J. (2013). Motor dysfunction of Complex Regional Pain Syndrome is related to impaired central processing of proprioceptive information. *The Journal of Pain*, *14*, 1460-1474. [IF = 3.240] DOI: 10.1016/j.jpain.2013.07.009
238. Hak, L., Van Dieën, J. H., Wurff, P. V., Prins, M. R., Mert, A., Beek, P. J., & Houdijk, H. (2013). Walking in an unstable environment: strategies used by transtibial amputees to prevent falling during gait. *Archives of Physical Medicine and Rehabilitation*, *94*, 2186-2193. DOI: 10.1016/j.apmr.2013.07.020.
239. Van den Heuvel, M. R. C., Van Wegen, E. E. H., De Goede, C. J. T., Burgers-Pots, I. A. L., Beek, P. J., Daffertshofer, A., Kwakkel, G. (2013). The effects of augmented visual feedback during balance training in Parkinson's disease: study design of a randomized clinical trial. *BMC Neurology*, *13*(137). [IF = 2.56]
240. Hak, L., Houdijk, H., van der Wurff, P., Prins, M. R., Mert, A., Beek, P. J., & van Dieën, J. H. (2013). Stepping strategies used by post-stroke individuals to maintain margins of stability during walking. *Clinical Biomechanics*, *28*, 1041-1048. [IF = 2.071]

241. Hak, L., Houdijk, H., Beek, P. J., & van Dieën, J. H. (2013). Steps to take to enhance gait stability: the effect of stride frequency, stride length, and walking speed on local dynamic stability and margins of stability. *Plos One*, *8*(12): e82842. DOI:10.1371/journal.pone.0082842. [IF = 3.057]
242. Rispens, S. M., Pijnappels, M., van Dieën, J. H., van Schooten, K. S., Beek, P. J., & Daffertshofer, A. (2014). A benchmark test of accuracy and precision in estimating dynamical systems characteristics from a time series. *Journal of Biomechanics*, *47*, 470-475. [IF = 2.740] DOI: 10.1016/j.jbiomech.2013.10.037.
243. Stevens, T. G. A., de Ruyter, C. J., van Niel, C., van de Rhee, R., Beek, P. J., & Savelsbergh, G. J. P. (2014). Measuring acceleration and deceleration in soccer-specific movements using a Local Position Measurement (LPM) system. *International Journal of Sports Physiology and Performance*, *9*, 446-456. [IF = 2.247]
244. Marmelat, V., Delignières, D., Torre, K., Beek, P. J., & Daffertshofer, A. (2014). 'Human paced' walking: followers adopt stride time dynamics of leaders. *Neuroscience Letters*, *564*, 67-71. DOI: 10.1016/j.neulet.2014.02.010.
245. Marmelat, V., Torre, K., Beek, P. J., & Daffertshofer, A. (2014). Persistent fluctuations in stride intervals under fractal auditory stimulation. *PLoS One*, *9*(3): e91949. DOI:10.1371/journal.pone.0091949. [IF = 3.057]
246. Bank, P. J. M., Peper, C. E., Marinus, J., Beek, P. J., & Van Hilten, J. J. (2014). Evaluation of mirrored muscle activity in patients with Complex Regional Pain Syndrome. *Clinical Neurophysiology*, *125*, 2100-2108. 10.1016/j.clinph.2014.02.019 [IF = 3.144]
247. Mazaheri, M., Roerdink, M., Bood, R. J., Duysens, J., Beek, P. J., & Peper, C. E. (2014). Attentional costs of visually guided walking: Effects of age, executive function and stepping-task demands. *Gait & Posture*, *40*, 182-186. [IF = 2.286]
248. Rispens, S. M., van Schooten, K. S., Pijnappels, M., Daffertshofer, A., Beek, P. J., & van Dieën, J. H. (2014). Consistency of gait characteristics as determined from acceleration data collected at different trunk locations. *Gait & Posture*, *40*, 187-192. [IF = 2.286]
249. Stins, J. F., Lobel, A., Roelofs, K., & Beek, P. J. (2014). Social embodiment in directional stepping behavior. *Cognitive Processing*, *15*, 245-252.
250. IJmker, T., Lamoth, C. J. C., Houdijk, H., van der Woude, L. H. V., & Beek, P. J. (2014). Postural threat during walking: effects on energy cost and accompanying gait changes. *Journal of Neuroengineering and Rehabilitation*, *11*:71. [IF = 2.115]
251. Kaptein, R. G., Wezenberg, D., IJmker, T., Houdijk, H., Lamoth, C. J. C., Beek, P. J., & Daffertshofer, A. (2014). Shotgun approaches to gait analysis: insights and limitations. *Journal of Neuroengineering and Rehabilitation*, *11*: 120. [IF = 2.115] DOI: 10.1186/1743-0003-11-120
252. IJmker, T., Noten, S., Lamoth, C. J. C., Beek, P. J. van der Woude, L. H. V., & Houdijk, H. (2014). Can external lateral stabilization reduce the energy cost of walking in persons with a lower limb amputation? *Gait & Posture*, *40*, 187-192. [IF = 2.286] DOI: 10.1016/j.gaitpost.2014.07.013
253. Roerdink, M., Cutti, A. G., Summa, A., Monari, D., Veronesi, D., van Ooijen, M. W., & Beek, P. J. (2014). Gaitography applied to prosthetic walking. *Medical & Biological Engineering & Computing*, *52*, 963-969.[IF = 1.500]. DOI: 10.1007/s11517-014-1195-1
254. van den Heuvel, M. R., Kwakkel, G., Beek, P. J., Berendse, H. W., Daffertshofer, A., & van Wegen, E. E. (2014). Effects of augmented visual feedback during balance training in Parkinson's disease: A pilot randomized clinical trial. *Parkinsonism and Related Disorders*, *20*, 1352-1358. [IF = 3.245] DOI: 10.1016/j.parkreldis.2014.09.022.
255. Rispens, S. M., van Schooten, K. S., Pijnappels, M., Daffertshofer, A., Beek, P. J., & van Dieën, J. H. (2015). Identification of fall risk predictors in daily life measurements: gait characteristics' reliability and association with self-reported fall history. *Neurorehabilitation and Neural Repair*, *29*, 54-61. [IF = 4.495] DOI: 10.1177/1545968314532031
256. Hak, L., Houdijk, H., Van der Wurff, P., Prins, M. R., Beek, P. J., & Van Dieën, J. H. (2015). Stride frequency and length adjustment in post-stroke individuals: Influence on the margins of stability. *Journal of Rehabilitation Medicine*, *47*, 126-132. [IF = 1.895]. DOI: 10.2340/16501977
257. Stins, J. F., van Gelder, M. A., Oudenhoven, L. M., & Beek, P. J. (2015). Biomechanical organization of gait initiation depends on the timing of affective processing. *Gait & Posture*, *41*, 159-163. [IF = 2.286] DOI: 10.1016/j.gaitpost.2014.09.020
258. Van Delden, A. E. Q., Beek, P. J., Roerdink, M., Kwakkel, G., & Peper, C. E. (2015). Unilateral and bilateral upper-limb training interventions after stroke have similar effects on bimanual coupling strength. *Neurorehabilitation and Neural Repair*, *29*, 255-267. [IF = 4.495] DOI: 10.1177/1545968314543498
259. Stins, J. F., Kempe, C. A., Hagenaars, M. A., Beek, P. J., & Roelofs, K. (2015). Attention and postural control in patients with conversion paresis. *Journal of Psychometric Research*, *78*, 249-254. [IF = 2.839]. DOI: 10.1016/j.jpsychores.2014.11.009
260. Rispens, S., van Schooten, K. S., Pijnappels, M., Daffertshofer, A., Beek, P. J., & van Dieën, J. H. (2015). Do extreme values of daily-life gait characteristics provide more information about fall risk than median values? *Journal of Medical Internet Research*, *4*: 1. [IF = 4.67] DOI: 10.2196/resprot.3931
261. Van Ooijen, M. W., Heeren, J. H. M., Smulders, K., Geurts, A. C. H., Janssen, T. W. J., Beek, P. J., Weerdesteyn, V., & Roerdink, M. (2015). Improved gait adjustments after gait adaptability training are associated with reduced attentional demands in persons with stroke. *Experimental Brain Research*, *233*, 1007-1018. [IF = 2.395] DOI: 10.1007/s00221-014-4175-7
262. Bank, P. J. M., Peper, C. E., Marinus, J., Van Hilten, J. J., & Beek, P. J. (2015). Intended and unintended (sensory-)motor coupling between the affected and unaffected upper limb in Complex Regional Pain Syndrome. *European Journal of Pain*, *19*, 1021-1034. [IF = 3.210] DOI: 10.1002/ejp.668
263. Stevens, T. G. A., de Ruyter, C. J., van Maurik, D., van Lierop, C. J. W., Savelsbergh, G. J. P., & Beek, P. J. (2015). Measured and estimated energy cost of constant and shuttle running in soccer players. *Medicine and Science in Sports and Exercise*. [IF = 4.041]
264. Stins, J. F., Emck, C., de Vries, E. M., Doop, S., & Beek, P. J. (2015). Attentional and sensory contributions to postural sway in children with autism spectrum disorder. *Gait & Posture*, *42*, 199-203. [IF = 2.286] DOI: 10.1016/j.gaitpost.2015.05.010
265. Stins, J. F., Schneider, I. K., Koole, S. L., & Beek, P. J. (2015). The influence of mental imagery on postural sway: Differential effects of type of body movement and person perspective. *Advances in Cognitive Psychology*, *11*, 77-83. DOI:10.5709/acp-0173-x
266. Schreven, S., Smeets, J. B. J., & Beek, P. J. (2015) Optimising filtering parameters for a 3D motion analysis system. *Journal of Electromyography and Kinesiology*, *25*, 808-814. [IF = 1.995] DOI: 10.1016/j.jelekin.2015.06.004
267. IJmker, T., Lamoth, C. J. C., Houdijk, J. H. P., Tolsma, M., van der Woude, L. H. V., Daffertshofer, A., & Beek, P. J. (2015). Effects of handrail hold and light touch on energetics, step parameters, and neuromuscular activity during walking after stroke. *Journal of Neuroengineering and Rehabilitation*, *12*:70. [IF = 2.115] DOI 10.1186/s12984-015-0051-3

268. Roerdink, M., Daffertshofer, A., Marmelat, V., & Beek, P. J. (2015). How to sync to the beat of a persistent fractal metronome without falling off the treadmill? *Plos One*, 10(7):e0134148 [IF = 3.057] DOI: 10.1371/journal.pone.0134148
269. Mazaheri, M., Hoogkamer, W., Potocanac, Z., Verschueren, S., Roerdink, M., Beek, P. J., Peper, C. E., & Duysens, J. (2015). Effects of ageing and dual-tasking on step adjustments to perturbations in visually cued walking. *Experimental Brain Research*, 223, 3467-3474.
270. Bouman, D., Stins, J. F., & Beek, P. J. (2015). Arousal and exposure duration affect forward step initiation. *Frontiers in Psychology*, 6:1167. DOI: 10.3389/fpsyg.2015.01667. [IF = 2.560].
271. van Lummel, R. C., Walgaard, S., Pijnappels, M., Elders, P. J. M., Garcia-Aymerich, J., van Dieën, J. H., & Beek, P. J. (2015). Physical performance and physical activity in older adults: associated but separate domains of physical function in old age. *Plos One*, 10:e0144048. [IF = 3.057]
272. Delsing, J. C., & Beek, P. J. (2015). Human Movement Science adopts Registered Reports for hypothesis-driven research. *Human Movement Science*, 44, A1-A2. [1.928]
273. Stevens, T. G. A., de Ruiter, C. J., Savelsbergh, G. J. P., & Beek, P. J. (2016). Validity and reliability of six-a-side small-sided game locomotor performance in assessing physical fitness in football players. *Journal of Sports Sciences*, 34, 527-534. [1.800]
274. Rispens, S., van Dieën, J. H., van Schooten, K. S., Cofre Lizama, L. E., Daffertshofer, A., Beek, P. J., & Pijnappels, M. (2016). Fall-related gait characteristics on the treadmill and in daily life. *Journal of NeuroEngineering and Rehabilitation*, 13:12. [IF = 2.740] DOI: 10.1186/s12984-016-0118-9
275. Bouman, D., Stins, J. F., & Beek, P. J. (2016). Corrigendum: Arousal and exposure affect forward and step initiation (vol. 6, pg. 1667, 2015). *Frontiers in Psychology*, 7:164. [IF = 2.560].
276. Mazaheri, M., Roerdink, M., Duysens, J., Beek, P. J., & Peper, C. E. (2016). Attentional costs of walking are not affected by variations in lateral balance demands in young and older adults. *Gait & Posture*, 46, 126-131. [IF = 2.286] DOI: 10.1016/j.gaitpost.2016.03.004
277. Van den Heuvel, M. R., Daffertshofer, A., Beek, P. J., Kwakkel, G., & van Wegen, E. E. (2016). The effects of visual feedback during a rhythmic weight-shifting task in patients with Parkinson's disease. *Gait & Posture*, 48, 140-145. [IF = 2.286] DOI: 10.1016/j.gaitpost.2016.03.020
278. Van Lummel, R. C., Walgaard, S., Maier, A. B., Ainsworth, E., Beek, P. J., & van Dieën, J. H. (2016). The instrumented Sit-to-Stand Test (iSTS) has greater clinical relevance than the manually recorded Sit-to-Stand Test in older adults. *Plos One*, 11(7):e0157968. [IF = 3.057] DOI 10.1371/journal.pone.0157968
279. Timmermans, C., Roerdink, M., Van Ooijen, M. W., Meskers, C., Janssen, T. W. J., & Beek, P. J. (2016). Walking adaptability therapy after stroke: study protocol for a randomized controlled trial. *Trials*, 17(1):425. DOI 10.1186/s13063-016-1527-6 [IF = 1.607]
280. van Schooten, K. S., Pijnappels, M., Rispens, S. M., Elders, P. J. M., Lips, P., Daffertshofer, A., Beek, P. J., & van Dieën, J. (2016). Daily-life gait quality as predictor of falls in older people: a 1-year prospective cohort study. *Plos One*, 11(7):e0158623. [IF = 3.057] DOI 10.1371/journal.pone.0158623
281. Van Ooijen, M. W., Roerdink, M., Trekop, M., Janssen, T. W. J., & Beek, P. J. (2016). The efficacy of treadmill training with and without projected visual context for improving walking ability and reducing fall incidence and fear of falling in older adults with fall-related hip fracture. A randomized controlled trial. *BMC Geriatrics*, 16:215. DOI 10.1186/s12877-016-0388-x [IF = 2.000]
282. De Melker Worms, J., Stins, J. F., van Wegen, E. E. H., Verschueren, S. M. P., Loram, I., & Beek, P. J., (2017). Influence of focus of attention, reinvestment and fall history on elderly gait stability. *Physiological Reports*, 5(1):e13061 doi: 10.14814/phy2.13061
283. Van Houwelingen, J., Schreven, S., Smeets, J. B. J., Clercx, H. J. H., & Beek, P. J. (2017). Effective propulsion in swimming: Grasping the hydrodynamics of hand movements. *Journal of Applied Biomechanics*, 33, 87-100. DOI 10.1123/jab.2016-0064

284. Stevens, T. G. A., de Ruiter, C. J., Savelsbergh, G. J. P., & Beek, P. J. (2017). Quantification of in-season training load relative to match load in professional Dutch Eredivisie football players. *Journal of Sports Sciences: Science and Medicine in Football*, 1(2). DOI 10.1080/24733938.2017.1282163
285. De Melker Worms, J., Stins, J. F., van Wegen, E. E. H., Verschuere, S. M. P., Beek, P. J., & Loram, I. (2017). Effects of attentional focus on walking stability in elderly. *Gait & Posture*, 55, 94-99. DOI /10.1016/j.gaitpost.2017.03.031
286. Ganzevles, S. P. M., Vullings, R., Beek, P. J., Daanen, & H. A. M., & Truijens, M. J. (2017). Using tri-axial accelerometry in daily elite swim training practice. *Sensors*, 17(5), 990. DOI 10.3390/s17050990.
287. Ganzevles, S. P. M., de Haan, A., Beek, P. J., Daanen, H. A. M., & Truijens, M. J. (2017). Heart rate recovery after warm-up in swimming: a useful measure for predicting training heart rate response? *International Journal of Sports Physiology and Performance*, 12(6), 742-748. DOI 10.1123/ijsp.2016-0144.
288. Beek, P. J., Hutter, V. I., & Oudejans, R. R. D. (2017). Editorial overview: Trending topics in sport psychology. *Current Opinion in Psychology*, 16, iv-vii. DOI 10.1016/j.copsyc.2017.06.002
289. De Melker Worms, J., Stins, J. F., Beek, P. J., & Loram, I. (2017). The effect of fear of falling on vestibular feedback control of balance. *Physiological Reports*, 5(18):e13391. DOI 10.14814/phy2.13391
290. Van Oeveren, B. T., de Ruiter, Beek, P. J., & van Dieën, J. (2017). Optimal stride frequencies in running at different speeds. *Plos One*, 12(10):e0184273. DOI 10.1371/journal.pone.0184273.
291. Van Houwelingen, J., Roerdink, M., Huibers, A. V., Evers, L. L. W., & Beek, P. J. (2017). Pacing the phasing of leg-arm coordination in breaststroke swimming to minimize intra-cyclic velocity fluctuations. *Plos One*, 12(10):e0186160. DOI 10.1371/journal.pone.0186160
292. Van de Kamp, M. M., Emck, C., Cuijpers, P., & Beek, P. J. (2018). A psychomotor diagnostic instrument for patients with post-traumatic stress disorder. *Body, Movement and Dance in Psychotherapy*, 13(1), 33-49. DOI 10.1080/17432979.2017.1420692
293. Van Oeveren, B. T., de Ruiter, Beek, P. J., Rispens, S. M., & van Dieën, J. (2018). An adaptive, real-time stride detection algorithm for unconstrained sensor placement. *Medical Engineering and Physics*, 52, 49-58. [IF = 1.819] DOI 10.1016/j.medengphy.2017.12.007
294. Van Lummel, R. C., Evers, J., Niessen, M., Beek, P. J., & van Dieën, J. H. (2018). Older adults with weaker muscle strength stand up from a sitting position with more dynamic trunk use. *Sensors. Special Issue on Sensors for Gait, Posture, and Health Monitoring. Sensors*, 18(4), 1235. DOI 10.3390/s18041235. [IF = 2.677]
295. Stins, J. F., Yaari, G., Wijmer, K., Burger, J. F., & Beek, P. J. (2018). Evidence for sequential performance effects in professional darts. *Frontiers in Psychology, section Movement Science and Sport Psychology*, 9:591. DOI 10.3389/fpsyg.2018.00591. [IF = 2.560].
296. Van den Heuvel, M. R., van Wegen, E. E., Beek, P. J., Kwakkel, G., & Daffertshofer, A. (2018). Incongruent visual feedback during a postural task enhances cortical alpha and beta modulation in patients with Parkinson's disease. *Clinical Neurophysiology*, 129, 1357-1365. DOI 10.1016/j.clinph.2018.04.602 [IF = 3.866]
297. Timmermans, C., Roerdink, M., Janssen, T. W. J., Meskers, G. M., & Beek, P. J. (2018). Dual-task walking in challenging environments in people with stroke: cognitive-motor interference and task-prioritization. *Stroke Research and Treatment*, 2018:7928597. DOI 10.1155/2018/7928597.
298. Van der Graaff, E., Hoozemans, M., Pasteuning, M., Veeger, H.E., & Beek, P. J. (2018). Focus of attention instructions during baseball pitching. *International Journal of Sports Science and Coaching*, 13, 391-397. [IF = 0.559] DOI: 10.1177/1747954117711095
299. Hofmijster, M. J., Lintmeijer, L. L., Beek, P. J., & van Soest, A. J. (2018). Mechanical power output in rowing should not be determined from oar forces and oar motion alone. *Journal of Sport Sciences*, 36, 2147-2153. [IF = 2.539] DOI 10.1080/02640414.2018.1439346
300. Lintmeijer, L. L., van Soest, A. J., Robbers, F., Hofmijster, M. J., & Beek, P. J. (2019). Real-time feedback on mechanical power output: facilitating rowers' with prescribed training intensity. *International Journal of Sport Physiology and Performance*, 14(3), 303-309. DOI: 10.1123/ijsp.2018-0128. [IF = 3.042]
301. Van Oeveren, B. T., de Ruiter, Beek, P. J., Rispens, S. M., & van Dieën, J. (2019). Inter-individual differences in stride frequencies during running from wearable data. *Journal of Sports Sciences*, 37, 1996-2006. DOI: 10.1080/02640414.2019.1614137. [IF = 1.800]
302. Timmermans, C., Roerdink, M., Janssen, T. W. J., Beek, P. J., & Meskers, C. (2019). Automatized, standardized and patient-tailored progressive walking-adaptability training: a proof-of-concept study. *Physical Therapy*, 99, 882-892. [IF = 2.587]

303. Smit, M. J., Scheffers, M., Emck, C. van Busschbach, J. T., & Beek, P. J. (2019). Clinical characteristics of sexually abused individuals with intellectual disability. An overview of the literature. *Research in Developmental Disabilities, 95*, 103513. DOI: 10.1016/j.ridd.2019.103513.
304. Van de Kamp, M. M., Scheffers, M., Hatzmann, J., Emck, C., Cuijpers, P., & Beek, P. J. (2019). Body and movement oriented interventions for posttraumatic stress disorder. A systematic review and meta-analysis. *Journal of Traumatic Stress*. [IF = 2.456] DOI: 10.1002/jts.22465.
305. Ganzvles, S. P. M., Beek, P. J., Daanen, H. A. M., Coolen, B. M. A., & Truijens, M. J. (2019). Differences in swimming smoothness between elite and non-elite swimmers. *Sports Biomechanics*. DOI: 10.1080/14763141.2019.1650102.
306. Coolen, B., Beek, P. J., Geerse, D. J., & Roerdink, M. (2020). Avoiding 3D obstacles in mixed reality: Does it differ from negotiating real obstacles? *Sensors, 20*, 1095. DOI: 10.3390/s20041095.

Articles in preparation/under submission

1. Van der Graaff, E., Hoozemans, M., Veeger, H.E., & Beek, P. J. (2019). External versus internal focus of attention in day-to-day baseball pitching training – a multicenter, randomized controlled cross-over intervention involving four national youth teams. *International Journal of Sports Science and Coaching*.
2. Van Oeveren, B., de Ruiter, C. J., Beek, P. J., & Van Dieën, J. H. (2019). Training behaviour, motivation and injury incidence in recreational runners of different performance levels.
3. Van Dijk, M. P., Beek, P. J., Van Soest, A. J. (2020). Swimming start performance depends on state at water entry. *PLoS One*.
4. Bouman, D., Stins, J. F., & Beek, P. J. (2020). The effect of distance change and response label on whole-body approach-avoidance behaviour. *Cognition and Emotion*.
5. Nijs, A., Roerdink, M., & Beek, P. J. (2020). Cadence modulation in experienced runners via step-based versus stride-based timing. *Brain Sciences*.
6. De Poel, H., Roerdink, M., Peper, C. E., & Beek, P. J. (2020). Interactional stability in bimanual coordination: a re-appraisal based on refined analyses. *Brain Sciences*.

Articles in Dutch journals

1. Beek, P. J. (1984). Lichaamsbeelden en expressieconcepten in de sociale psychologie [Images of the human body and concepts of expression in social psychology]. *Bewegen en Hulpverlening, 1*, 228-236.
2. Beek, P. J., & Bootsma, R. J. (1986). Theoretische problemen ten aanzien van leren via imitatie [Theoretical problems regarding learning through imitation]. *Bewegen en Hulpverlening, 3*, 308-315.
3. Bootsma, R. J., & Beek, P. J. (1986). Bewegingstherapie in ecologisch perspectief [An ecological perspective on movement therapy]. *Bewegen en Hulpverlening, 3*, 316-323.
4. Beek, P. J., & Bootsma, R. J. (1989). Fractals: Het einde van Euclides? [Fractals: The fall of Euclid?]. *Psychologie, 8*, 44-49.
5. Beek, P. J. (1989). Jongleren: Makkelijker dan je denkt [Juggling: Easier than you think]. *Psychologie, 8*, 10-16.
6. Beek, P. J. (1991). Neurale netwerken [Neural networks]. *Natuur en Techniek, 59*, 194-205.
7. Beek, P. J., & Hopkins, B. (1991). Human movement sciences at the Vrije Universiteit Amsterdam. *International Journal of Physical Education, 28*(2), 27-31.
8. Ingen Schenau, G. J. van, & Beek, P. J. (1993). Bij een formele integratie van wetenschap en fysiotherapie is niemand gebaat [Arguments against a formal integration of science and physiotherapy]. *Geneeskunde en Sport, 6*, 191-195.
9. Ingen Schenau, G. J. van, & Beek, P. J. (1994). Een efficiënt koppel: Spieren over twee gewrichten [An efficient couple: Muscles crossing two joints]. *Natuur en Techniek, 62*, 528-543.
10. Beek, P. J., & Ingen Schenau, G. J. van (1994). Spontane sprongen [Spontaneous jumps]. *Natuur en Techniek, 62*, 742-753.
11. Wimmers, R. H., Savelsbergh, G. J. P., Beek, P. J., & Hopkins, B. (1994). Naar een dynamische beschrijving van transitie in de perceptueel-motorische ontwikkeling [Towards a dynamical description of transitions in perceptual-motor development]. *Tijdschrift voor Ontwikkelingspsychologie, 21*, 99-127.
12. Beek, P. J. (1995). Achtergronden van coördinatie [Backgrounds of coordination]. *Bulletin voor het Onderwijs in de Biologie, 26*, 217-220.
13. Peper, C. E., & Beek, P. J. (1996). Spontaan gelijk op [Spontaneously in-sync]. *Psychologie, 15*, 33.
14. Beek, P. J., Rozendal, R. H., & Tamboer, J. W. I. (1997). Wat heeft de LO aan bewegingswetenschappen? [What good are human movement sciences for the practice of physical education?] *Lichamelijke Opvoeding, 18*, 858-859.
15. Beek, P. J. (1997). Boekbespreking van [Book review of] *Human motor development: A lifespans approach* (Payne, V. G., & Isaacs, L. D., Mayfield Publishing Company, 1995, pp. 426). *Bewegen en Hulpverlening, 14*, 216-218.
16. Beek, P. J., & Daffertshofer, A. (1998). Zelf-organisatie in het brein [Self-organization in the brain]. *Neuropraxis, 2*, 37-41.
17. Beek, P. J., & Hollander, A. P. (1998). Boekbespreking van [Book review of] *"The biophysical foundations of human movement"* (Abernethy, B., Kippers, V., Mackinnon, L. T. & Hanrahan, S., Human Kinetics Publishers, 1997, pp. 425). Book Review, *Bewegen en Hulpverlening, 15*, 181-182.
18. Beek, P. J. (2002). Krachttraining en taakspecificiteit [Force training and task specificity]. *Sportfysiotherapie in Beeld, 3*(2), 8-12.
19. Beek, P. J. (2003). Impliciet of expliciet leren? Strategieën voor het aanleren van perceptueel-motorische vaardigheden [Implicit or explicit learning? Strategies for teaching perceptual-motor skills]. *Coachen, 24*(1), 42-43.
20. Beek, P. J., Koedijker, J., & Oudejans, R. R. D. (2005). Weten wat je doet, is niet noodzakelijk goed. Impliciet versus expliciet leren in de sport. [Knowing what you are doing is not necessarily a good thing. Implicit versus explicit learning in sport]. *Sportgericht, 59*(1), 33-38.
21. de Poel, H., Peper, L., & Beek, P. (2008). Asymmetrie in de coördinatie: simultaan bewegende armen beïnvloeden elkaar, maar niet even sterk. [Asymmetry in coordination: simultaneously moving arms influence each other, but not equally strongly]. *Neuropraxis, 12*(2), 43-49.
22. van Delden, A. E. Q., Peper, C. E., Nienhuys, K., Zipp, N. I., Beek, P. J., & Kwakkel, G. (2011). Armtraining na CVA: unilateraal of bilateraal? *Nederlands Tijdschrift voor Revalidatiegeneeskunde, 2*, 11-16.
23. Beek, P. J. (2011). Nieuwe, praktisch relevante inzichten in techniektraining (deel 1): Motorisch leren: uitgangspunten en overwegingen. *Sportgericht, 65*(1), 43-49.
24. Beek, P. J. (2011). Fundamenten. Motorisch leren. *Fysiopraxis, 20*(5), 35.

25. Beek, P. J. (2011). Nieuwe, praktisch relevante inzichten in techniektraining (deel 2): Motorisch leren: het belang van een externe focus van aandacht. *Sportgericht*, 65(3), 2-5.
26. Beek, P. J. (2011). Fundamenten. Motorisch leren: focus van aandacht. *Fysiopraxis*, 20(7), 37.
27. Beek, P. J. (2011). Nieuwe, praktisch relevante inzichten in techniektraining (deel 3): Motorisch leren: het belang van impliciete kennisopbouw. *Sportgericht*, 65(4), 12-16.
28. Beek, P. J. (2011). Fundamenten. Motorisch leren: expliciete versus impliciete kennis. *Fysiopraxis*, 20(9), 29.
29. Beek, P. J. (2011). Nieuwe, praktisch relevante inzichten in techniektraining (deel 4): Motorisch leren: het belang van contextuele interferentie. *Sportgericht*, 65(5), 2-6.
30. Beek, P. J. (2011). Fundamenten. Motorisch leren: contextuele interferentie. *Fysiopraxis*, 20(11), 35.
31. Beek, P. J. (2011). Nieuwe, praktisch relevante inzichten in techniektraining (deel 5): Motorisch leren: het belang van random variatie in de uitvoering. *Sportgericht*, 65(5), 30-35.
32. Beek, P. J. (2012). Nieuwe, praktisch relevante inzichten in techniektraining (deel 6): Motorisch leren: snelle techniekcorrectie met Old Way New Way. *Sportgericht*, 66(2), 2-5.
33. Beek, P. J. (2012). Fundamenten. Motorisch leren: Old Way, New Way. *Fysiopraxis*, 21(3), 32.
34. Beek, P. J., & Roerdink, M. (2012). Nieuwe inzichten in motorisch leren voor de fysiotherapeut. *Physios*. Praktische nascholing over fysiotherapie, 4(2), 13-20.
35. Beek, P. J. (2012). Nieuwe, praktisch relevante inzichten in techniektraining (deel 7): Motorisch leren: oefening in combinatie met slapen baart kunst. *Sportgericht*, 66(3), 2-6.
36. Beek, P. J. (2012). Nieuwe, praktisch relevante inzichten in techniektraining (deel 8): Motorisch leren: het belang van observeren en nadoen. *Sportgericht*, 66(4), 2-6.
37. Beek, P. J. (2012). Fundamenten. Motorisch leren: individuele verschillen. *Fysiopraxis*, 21(9), 31.
38. Beek, P. J. (2013). Nieuwe, praktisch relevante inzichten in techniektraining (deel 9): Motorisch leren: het belang van zelfsturing. *Sportgericht*, 67(2), 12-16.
39. Beek, P. J. (2013). Fundamenten. Motorisch leren: het belang van zelfsturing. *Fysiopraxis*, 22(4), 35.
40. Beek, P. J. (2013). Fundamenten. Unilaterale of bilaterale training na CVA? *Fysiopraxis*, 22(8), 34-35.
41. Beek, P. J. (2014). Nieuwe, praktisch relevante inzichten in techniektraining (deel 10): Motorisch leren: individuele verschillen en leerstijlen. *Sportgericht*, 68(3), 2-7.
42. Lintmijer, L. L., van Houwelingen, J., Grift E. J., & Beek, P. J. (2016). Optimaal door het water: op zoek naar de ideale techniek voor roeien en zwemmen. *Sportgericht*, 70(3), 12-17.
43. Ganzevles, S., Daanen, J., Beek, P. J., & Truijens, M. (2016). Een duik in de accelerometrie. *Sportgericht*.
44. van der Graaff, E., Van Dis, F., Gasparutto, X., Hoozemans, M., Nijhof, M., Beek, P. J., & Veeger, D. (2016). Project FASTBALL. Snel en blessurevrij leren werpen. *Sportgericht*, 70(3), 38-41.
45. Gasparutto, X., van der Graaff, E., Van Dis, F., Hoozemans, M., Beek, P. J., & Veeger, D. (2016). Beter trainen, harder gooien. *Nederlands Tijdschrift voor Natuurkunde*, 82(6), 212-215.
46. Van Schooten, K., Pijnappels, M., Rispens, S., Elders, P., Lips, P., Daffertshofer, A., Beek, P., & Van Dieën, J. (2016). Bewegen en vallen: de kwaliteit van het alledaags lopen als voorspeller van vallen bij ouderen. *Tijdschrift voor Human Factors*, 41, 14-19.
47. van den Heuvel, M. R. C., Daffertshofer, A., Beek, P. J., Kwakkel, K., & van Wegen, E. H. (2019). Effect van visuele feedback tijdens een dynamische houdingstaak op hersenactiviteit bij mensen met de ziekte van Parkinson. *Neuropraxis*, 4,
48. Smit, M. J., Scheffers, M., Emck, C., van Busschbach, J. T., & Beek, P. J. (2020). Klinische kenmerken van seksueel misbruikte mensen met een verstandelijke beperking: een overzicht van de literatuur. *Tijdschrift voor Psychiatrie*.

Chapters in books

1. Beek, P. J. (1986). Perception-action coupling in the young infant: An appraisal of von Hofsten's research programme. In M. G. Wade & H. T. A. Whiting (Eds.), *Motor development in children: Aspects of coordination and control* (pp. 187-196). Dordrecht: Martinus Nijhoff.
2. Beek, P. J., & Bootsma, R. J. (1987). Psychologische leertheorieën en hun relevantie voor de sportpraktijk [Psychological learning theories and their practical relevance in sports]. In L. Clijfen & B. Crum (Eds.), *Coachen, aspecten van leidinggeven in de sport* (pp. 3200/1-3200/44). Alphen aan de Rijn: Samson.
3. Beek, P. J., & Meijer, O. G. (1988). On the nature of the motor-action controversy. In O. G. Meijer & K. Roth (Eds.), *Complex movement behaviour: 'The' motor-action controversy* (pp. 157-185). Amsterdam: North-Holland.
4. Bootsma, R. J., & Beek, P. J. (1988). Coördinatie en controle van groot-motorische vaardigheden [Coordination and control of gross motor skills]. In P. J. G. Keuss, G. ten Hoopen, & A. A. J. Mannaerts (Eds.), *Menselijke motoriek* (pp. 29-42). Lisse: Swets & Zeitlinger.
5. Beek, P. J. (1988). Exploring the dynamics of juggling. In A. M. Colley & J. R. Beech (Eds.), *Cognition and action in skilled behaviour* (pp. 229-246). Amsterdam: North-Holland.
6. Beek, P. J., & Beek, W. J. (1989). Tools for constructing dynamical models of rhythmic movement. In P. N. Kugler (Ed.), *Self-organization in biological work spaces* (pp. 205-246). Amsterdam: North-Holland. (see also Articles in Refereed Journals).
7. Turvey, M. T., & Beek, P. J. (1990). Invariants of perception and action. *Proceedings of the Sixth Yale Workshop on Adaptive and Learning Systems* (pp. 201-205). Yale University, New Haven.
8. Beek, W. J., & Beek, P. J. (1991). Task studies tweaking the perception-action cycle. In R. Jacobs & W. E. I. Rikkert (Eds.), *Motor control: An interdisciplinary forum* (pp. 33-49). Amsterdam: VU University Press.
9. Beek, P. J. (1991). Modelling complexity: A complicated business. In R. Jacobs & W. E. I. Rikkert (Eds.), *Motor control: An interdisciplinary forum* (pp. 91-96). Amsterdam: Vrije Universiteit Press.
10. Peper, C. E., Beek, P. J., & van Wieringen, P. C. W. (1991). Bifurcations in bimanual tapping: In search of Farey principles. In J. Requin & G. E. Stelmach (Eds.), *Tutorials in motor neuroscience* (pp. 413-431). N.A.T.O. ASI Series. Dordrecht: Kluwer.
11. Peper, C. E., Beek, P. J., & van Wieringen, P. C. W. (1991). Bifurcations in polyrhythmic tapping. In P. J. Beek, R. J. Bootsma, & P. C. W. van Wieringen (Eds.), *Studies in perception and action. Posters presented at the VI International Conference on Event Perception and Action* (pp. 325-329). Amsterdam: Rodopi.

12. van Riel, M.-J., Beek, P. J., & van Wieringen, P. C. W. (1991). Phase transitions in rhythmic arm movements under different stimulus-response configurations. In P. J. Beek, R. J. Bootsma, & P. C. W. van Wieringen (Eds.), *Studies in perception and action. Posters presented at the VI International Conference on Event Perception and Action* (pp. 234-238). Amsterdam: Rodopi.
13. Rikkert, W. E. I., Beek, P. J., & Beek, W. J. (1991). In search of a physical underpinning of the coupling constants in coordinated rhythmic movements. In P. J. Beek, R. J. Bootsma, & P. C. W. van Wieringen (Eds.), *Studies in perception and action. Posters presented at the VI International Conference on Event Perception and Action* (pp. 310-315). Amsterdam: Rodopi.
14. Rikkert, W. E. I., Beek, P. J., & van Wieringen, P. C. W. (1991). Limit cycle properties of coordinated rhythmic movements are limb-specific. In P. J. Beek, R. J. Bootsma, & P. C. W. van Wieringen (Eds.), *Studies in perception and action. Posters presented at the VI International Conference on Event Perception and Action* (pp. 306-309). Amsterdam: Rodopi.
15. van Santvoord, A. A. M., Beek, P. J., & Bootsma, R. J. (1991). Looking for place-of-contact information in a parabolic flight trajectory. In P. J. Beek, R. J. Bootsma, & P. C. W. van Wieringen (Eds.), *Studies in perception and action. Posters presented at the VI International Conference on Event Perception and Action* (pp. 115-120). Amsterdam: Rodopi.
16. Beek, P. J., Peper, C. E., & van Wieringen, P. C. W. (1992). Frequency locking, frequency modulation, and bifurcations in dynamic movement systems. In G. E. Stelmach & J. Requin (Eds.), *Tutorials in motor behavior* (pp. 599-622). Amsterdam: North-Holland.
17. Wimmers, R. H., Beek, P. J., & van Wieringen, P. C. W. (1992). Phase transitions in rhythmic tracking movements: A case of unilateral coupling. In A. J. W. M. N. Thomassen, D. A. Rosenbaum, & P. C. W. van Wieringen (Eds.), *Sequencing and timing of human movement* (pp. 217-226). Amsterdam: North-Holland. (see also Articles in Refereed Journals).
18. Beek, P. J. (1992). Inadequacies of the proportional duration model: Perspectives from a dynamical analysis of juggling. In A. J. W. M. N. Thomassen, D. A. Rosenbaum, & P. C. W. van Wieringen (Eds.), *Sequencing and timing of human movement* (pp. 227-238). Amsterdam: North-Holland. (see also Articles in Refereed Journals).
19. Beek, P. J., & Bootsma, R. J. (1992). Waarnemen en bewegen: Een ondeelbare werkelijkheid [Perception and movement: An indivisible reality]. In J. P. Baeyens (Ed.), *Gerontologie & Geriatrie 1992. Proceedings 15th winter meeting Oostende. Belgische Vereniging voor Gerontologie en Geriatrie* (pp. 85-90). Leuven: Garant.
20. Hopkins, B., Beek, P. J., & Kalverboer, A. F. (1993). Theoretical issues in the longitudinal study of motor development. In A. F. Kalverboer, B. Hopkins, & R. H. Geuze (Eds.), *Motor development in early and later childhood: Longitudinal approaches* (pp. 343-371). Cambridge: Cambridge University Press.
21. Beek, P. J., Hopkins, B., & Molenaar, P. C. M. (1993). Complex systems approaches to the development of action. In G. J. P. Savelsbergh (Ed.), *The development of coordination in infancy* (pp. 497-515). Amsterdam: North-Holland.
22. Turvey, M. T., Schmidt, R. C., & Beek, P. J. (1993). Fluctuations in interlimb rhythmic coordinations. In K. M. Newell (Ed.), *Variability and motor control* (pp. 381-411). Champaign, IL: Human Kinetics Publishers.
23. van Santvoord, A. A. M., & Beek, P. J. (1993). Optical information for cascade juggling. In S. S. Valenti, & J. B. Pittenger (Eds.), *Studies in perception and action. Posters presented at the VIIth International Conference on Event Perception and Action* (pp. 315-319). Hillsdale: Lawrence Erlbaum Publishers.
24. Peper, C. E., Beek, P. J., & van Wieringen, P. C. W. (1993). Training effects on coupling strength in bimanual rhythmical performance. In S. S. Valenti, & J. B. Pittenger (Eds.), *Studies in perception and action II. Posters presented at the VIIth International Conference on Event Perception and Action* (pp. 202-205). Hillsdale: Lawrence Erlbaum Publishers.
25. van Santvoord, A. A. M., & Beek, P. J. (1993). Phasing and the pick-up of visual information in cascade juggling. In S. Serpa, J. Alves, V. Ferreira, & A. Paula-Brito (Eds.), *Proceedings of the 8th World Congress of Sport Psychology* (pp. 985-988). Lisbon.
26. Peper, C. E., Beek, P. J., & van Wieringen, P. C. W. (1993). Bimanual rhythmic performance: Mastering the interaction between the hands. In C. A. M. Doorenbosch et al. (Eds.), *Learning motor skills: Proceedings of the third symposium of the Graduate Institute of Human Movement* (pp. 94-99). Amsterdam: CopyPrint 2000.
27. Wimmers, R. H., Savelsbergh, G. J. P., Beek, P. J., & Hopkins, B. (1993). Stability and change in the development of prehension: A dynamical approach. In C. A. M. Doorenbosch et al. (Eds.), *Learning motor skills: Proceedings of the third symposium of the Graduate Institute of Human Movement* (pp. 100-103). Amsterdam: CopyPrint 2000.
28. Beek, P. J., & de Wit, A. P. (1993). Affordances en architectuur [Affordances and architecture]. In J. A. G. M. Rutten & J. Semah (Eds.), *Third exile* (pp. 29-44). Amsterdam: Arti & Amicitiae.
29. Baron, R. M., Amazeen, P. G., & Beek, P. J. (1994). Local and global dynamics of social relations. In R. R. Vallacher & A. Nowak (Eds.), *Dynamical systems in social psychology* (p. 111-138). New York: Academic Press.
30. Den Brinker, B. P. L. M., Coolen, H., & Beek, P. J. (1994). FAMS-lab: A management environment for the acquisition and processing of movement data. In F. J. Maarse, A. E. Akkerman, A. M. Brand, L. J. M. Mulder, & M. J. van der Stelt (Eds.), *Computers in psychology: Applications, methods and instruments* (p. 230-240). Lisse: Swets & Zeitlinger.
31. Beek, P. J., & Sternad, D. (1994). Koordination und Kontrolle von sportmotorischen Fertigkeiten aus ökologischer Perspektive [An ecological perspective on the coordination and control of sport motor skills]. In K.-H. Leist, D. Hackfort, & J. Loibl (Eds.), *Ordnungs- und Organisationsleistungen menschlicher Motorik* (pp. 73-84). München: TU-Verlag.
32. Michaels, C. F., & Beek, P. J. (1994). The state of ecological psychology. In: *Program and Proceedings of the Third European Workshop on Ecological Psychology* (p. 1-21). Ruhr-University Bochum, FR Germany.
33. Beek, P. J., Peper, C. E., Post, A. A., & Reijnen, J. S. (1995). Orbital stability of rhythmic forearm movements. In B. Bardi, R. J. Bootsma, & Y. Guiard (Eds.), *Studies in perception and action III* (pp. 75-78). Hillsdale: Lawrence Erlbaum Publishers.
34. Wimmers, R. H., Savelsbergh, G. J. P., Beek, P. J., & Hopkins, B. (1995). Preliminary evidence for a developmental transition from reaching to grasping proper. In B. Bardi, R. J. Bootsma, & Y. Guiard (Eds.), *Studies in perception and action III* (pp. 107-110). Hillsdale: Lawrence Erlbaum Publishers.
35. Beek, P. J., & van Santvoord, A. A. M. (1996). Dexterity in cascade juggling. In M. Latash & M. T. Turvey (Eds.), *Dexterity and its development* (pp. 377-391). Hillsdale, NJ: Lawrence Erlbaum Associates.
36. Den Brinker, B. P. L. M., Coolen, H., & Beek, P. J. (1996). Managing the acquisition, processing and analysis of movement data. In B. P. L. M. den Brinker, P. J. Beek, A. P. Hollander, & R. T. Nieuwboer (Eds.), *Zesde Workshop Computers in de Psychologie. Programma & uitgebreide samenvattingen* (pp. 44-45). Amsterdam: IFKB.
37. Coolen, H., Den Brinker, B. P. L. M., Wagenaar, R. C., & Beek, P. J. (1996). Manipulatie van optic flow tijdens gaan en rechtop staan in een virtual environment [Manipulation of optic flow during walking and upright standing in a virtual environment]. In B. P. L. M. den Brinker, P. J. Beek, A. P. Hollander, & R. T. Nieuwboer (Eds.), *Zesde Workshop Computers in de Psychologie. Programma & uitgebreide samenvattingen* (pp. 57-60). Amsterdam: IFKB.

38. Beek, P. J. (1996). Jonggeleerd, vaak gedaan. In J. J. de Koning & G. J. P. Savelsbergh (Eds.), *Stilstaan bij bewegen* (p. 56-57). Beek: Natuur & Techniek.
39. Peper, C. E., & Beek, P. J. (1996). De frustratie tijdens pianoles [The frustration during piano-playing lessons]. In J. J. de Koning & G. J. P. Savelsbergh (Eds.), *Stilstaan bij bewegen* (p. 58-59). Beek: Natuur & Techniek.
40. Post, A. A., & Beek, P. J. (1997). Measuring entropy in cascade juggling. In M. A. Schmuckler & J. M. Kennedy (Eds.), *Studies in perception and action IV. ICPA 9 Poster Book* (pp. 253-256). Hillsdale: Lawrence Erlbaum Publishers.
41. Peper, C. E., & Beek, P. J. (1997). The role of amplitude in frequency-induced transitions. In M. A. Schmuckler & J. M. Kennedy (Eds.), *Studies in perception and action IV. ICPA 9 Poster Book* (pp. 267-270). Hillsdale: Lawrence Erlbaum Publishers.
42. Beek, P. J., Peper, C. E., van Soest, A. J., Daffertshofer, A., & Meijer, O. G. (1998). Studying perceptual-motor actions from mutually constraining perspectives (pp. 93-112). In A. A. Post, J. R. Pijpers, P. Bosch, & M. S. J. Boschker (Eds.), *Models in human movement sciences*. Proceedings of the Second Symposium of the Institute for Fundamental and Clinical Human Movement Sciences. Enschede: PrintPartners Ipskamp.
43. Amazeen, E. L., Amazeen, P. G., Post, A. A., & Beek, P. J. (1998). Timing the selection of visual information in rhythmic throwing. In B. Bril, A. Ledebt, G. Dietrich, & A. Roby-Brami (Eds.), *Advances in perception-action coupling. Fifth European Workshop on Ecological Psychology* (pp. 85-89). Paris: Éditions EDK.
44. Amazeen, P. G., Amazeen, E. L., & Beek, P. J. (1998). The effect of experience on locomotor-respiratory coupling during wheelchair propulsion. In B. Bril, A. Ledebt, G. Dietrich, & A. Roby-Brami (Eds.), *Advances in perception-action coupling. Fifth European Workshop on Ecological Psychology* (pp. 123-127). Paris: Éditions EDK.
45. Peper, C. E., & Beek, P. J. (1998). Examining the role of movement amplitude in rhythmic coordination. In B. Bril, A. Ledebt, G. Dietrich, & A. Roby-Brami (Eds.), *Advances in perception-action coupling. Fifth European Workshop on Ecological Psychology* (pp. 147-151). Paris: Éditions EDK.
46. Barr, R. G., Beek, P. J., & Calinoui, N. (1999). Challenges to nonlinear modelling of infant emotion regulation in real and developmental time. In G. J. P. Savelsbergh, H. van der Maas, & P. van Geert (Eds.), *Non-linear developmental processes* (pp. 15-37). Amsterdam: Royal Netherlands Academy of Arts and Sciences.
47. Wimmers, R. H., Savelsbergh, G. J. P., Beek, P. J., & Hopkins, B. (1999). A catastrophic change in the early development of prehension? In G. J. P. Savelsbergh, H. van der Maas, & P. van Geert (Eds.), *Non-linear developmental processes* (pp. 125-136). Amsterdam: Royal Netherlands Academy of Arts and Sciences.
48. van den Berg, C., Beek, P. J., van Wieringen, P. C. W., & Wagenaar, R. C. (1999). Rhythmic forearm movements of Parkinson patients. In M. Grealy & J. Thomson (Eds.), *Studies in Perception and Action V* (pp. 301-305). Mahwah, NJ: Lawrence Erlbaum Associates.
49. Amazeen, P. G., Amazeen, E. L., & Beek, P. J. (1999). Locomotor-respiratory coupling during manual wheelchair propulsion. In L. H. V. van der Woude, M. T. E. Hopman, & C. H. van Kemenade (Eds.), *Ergonomics of manual wheelchair propulsion. The state of the art II* (pp. 202-207). Amsterdam: IOS Press.
50. Den Brinker, B. P. L. M., Beek, P. J., & Coolen, H. (1999). A note on the design and use of low vision aids for reading and searching information. In B. P. L. M. den Brinker, P. J. Beek, A. N. Brand, F. J. Maarse, & L. J. M. Mulder (Eds.), *Cognitive ergonomics, clinical assessment and computer-assisted learning. Computers in Psychology 6* (pp. 51-63). Lisse: Swets & Zeitlinger.
51. Den Brinker, B. P. L. M., Broere, Y. J., & Beek, P. J. (2000). Space scaling behavior and preferred retinal character size during reading. In C. Stuenkel, A. Arditi, A. Horowitz, M. A. Lang, B. Rosenthal, & K. Seidman (Eds.), *Vision rehabilitation. Assessment, intervention and outcomes. Selected papers from Vision '99: International Conference on Low Vision, July 1999* (pp. 302-305). Lisse: Swets & Zeitlinger.
52. Beek, P. J. (2000). Coördinatie, informatie en leren [Coordination, information and learning]. In C. R. van der Togt & M. F. Zweers (Eds.), *Sport, bewegen & gezondheid, Vol. 13* (pp. 29-49). Houten/Diegem: Bohn Stafleu van Loghum.
53. Beek, P. J., Peper, C. E., & Daffertshofer, A. (2000). Timekeepers versus nonlinear oscillators: How the approaches differ. In P. Desain & L. Windsor (Eds.), *Rhythm perception and production* (pp. 9-33). Lisse: Swets & Zeitlinger.
54. Peper, C. E., Beek, P. J., & Daffertshofer, A. (2000). Considerations regarding a comprehensive model of (poly)rhythmic movements. In P. Desain & L. Windsor (Eds.), *Rhythm perception and production* (pp. 35-49). Lisse: Swets & Zeitlinger.
55. Jansen, C., Peper, C. E., & Beek, P. J. (2000). Limitations of the scanning procedure in assessing changes in coordination dynamics due to learning. In P. Desain & L. Windsor (Eds.), *Rhythm perception and production* (pp. 51-68). Lisse: Swets & Zeitlinger.
56. Beek, P. J. (2001). Stilstaan bij Beweging. II. Gecoördineerd bewegen. In J. J. de Koning & G. J. P. Savelsbergh (Eds.), *Stilstaan bij bewegen* (p. 17-23). Beek: Natuur & Techniek.
57. Beek, P. J., & Peper, C. E. (2001). Jonggeleerd, vaak gedaan. In J. J. de Koning & G. J. P. Savelsbergh (Eds.), *Stilstaan bij bewegen* (p. 56-57). Beek: Natuur & Techniek.
58. Wing, A. M., & Beek, P. J. (2002). Movement timing: A tutorial. In W. Prinz & B. Hommel (Eds.), *Common mechanisms in perception and action. Attention and Performance, Vol. XIX* (pp. 202-226). Oxford: Oxford University Press.
59. Beek, P. J., Jacobs, D., Daffertshofer, A., & Huys, R. (2003). Expert performance in sport: Views from the joint perspectives of ecological psychology and dynamical systems theory. In J. Starkes & A. Ericsson (Eds.), *Expert performance in sport* (pp. 321-344). Champaign, Ill.: Human Kinetics.
60. Ridderikhoff, A., Peper, C. E., Carson, R. G., & Beek, P. J. (2003). Musculoskeletal dynamics of the wrist during rhythmic activity. In S. Rogers, and J. Effken (Eds.), *Studies in Perception and Action VII* (pp. 65-68). Mahwah, NJ: Lawrence Erlbaum Associates.
61. Dessing, J. C., Peper, C. E., & Beek, P. J. (2003). A comparison of real catching with catching in a CAVE. In S. Rogers, and J. Effken (Eds.), *Studies in Perception and Action VII* (pp. 145-148). Mahwah, NJ: Lawrence Erlbaum Associates.
62. Frank, T., & Beek, P. J. (2003). A mean-field approach to self-organization in spatially extended perception-action and psychological systems. In W. Tschacher & J.-P. Dauwalder (Eds.), *Studies of nonlinear phenomena in life science, Vol. 10. The dynamical systems approach to cognition. Concepts and empirical paradigms based on self-organization, embodiment, and coordination dynamics* (pp. 159-179). Singapore: World Scientific.
63. Peper, C. E., Daffertshofer, A., & Beek, P. J. (2004). Dynamical models of rhythmic interlimb coordination. A focus on pattern (in)stability. In S. P. Swinnen & J. Duysens (Eds.), *Neurobehavioral determinants of interlimb coordination* (297-323). Dordrecht: Kluwer Academic Publishers.

64. Huys, R., Daffertshofer, A., & Beek, P. J. (2004). The evolution of coordination during skill acquisition: The dynamical systems approach. In A. M. Williams, N. J. Hodges, M. A. Scott, & M. L. J. Court (Eds.), *Acquisition in sport: Research, theory and practice* (pp. 351-373). London: Routledge.
65. Frank, T. D., Peper, C. E., Daffertshofer, A., & Beek, P. J. (2005). Variability of brain activity during rhythmic unimanual finger movements. In K. Davids, S. Bennett & K. M. Newell (Eds.), *Movement system variability* (pp. 271-305). Champaign-Urbana, Ill.: Human Kinetic Publishers.
66. Michielsen, M. E., Stins, J. F., Roerdink, M., & Beek, P. J. (2007). Effects of cognition and expertise on postural sway regularity. In S. Cummins-Sebree, M. A. Riley, & K. Shockley (Eds.), *Studies in perception and action IX. Fourteenth International Conference on Perception and Action* (pp. 127-130). New York: Lawrence Erlbaum Associates (Taylor & Francis Group).
67. van de Langenberg, Kingma, I., & Beek, P. J. (2007). Evidence for the salience hypothesis in dynamic touch. In S. Cummins-Sebree, M. A. Riley, & K. Shockley (Eds.), *Studies in perception and action IX. Fourteenth International Conference on Perception and Action* (pp. 164-167). New York: Lawrence Erlbaum Associates (Taylor & Francis Group).
68. Daffertshofer, A., Boonstra, T. W., & Beek, P. J. (2007). Cortical beta synchronization is related to low-order motor parameters. *International Congress Series, 1300*, 329-332.
69. Houweling, S., Daffertshofer, A., van Dijk, B. W., & Beek, P. J. (2007). Synchronization in perceptual-motor integration. *International Congress Series, 1300*, 333-336.
70. Dieën, J. H. van, Selen, L. P. J., & Beek, P. J. (2008). Suppression of neuromuscular noise through impedance modulation. In D. A. de Jong (Ed.), *Progress in biological cybernetics* (pp. 137-160). New York: Nova Publishers.
71. Debats, N. B., Kingma, I., Beek, P. J., & Smeets, J. B. J. (2010). Muscular torque can explain biases in haptic length perception: A model study on the radial-tangential illusion. In A. M. L. Kappers, J. B. F. van Erp, W. M. B. Tiest, & F. C. T. van der Helm (Eds.), *Haptics: Generating and perceiving tangible sensations, Part II, Proceedings. Book Series: Lecture Notes in Computer Science* (6192, pp. 392-397). Heidelberg: Springer Verlag.
72. Emck, C., Bosscher, R., van Wieringen, P., Beek, P., & Dorelijers, Th. (2010). Opvallend, onhandig, onbesuisd of onzeker? Psychomotorische kenmerken van kinderen met psychiatrische stoornissen. In J. de Lange (Red.), *Psychomotorische therapie. Lichaams- en bewegingsgerichte interventies in de ggz* (pp. 195-226). Amsterdam: Uitgeverij Boom.
73. Debats, N. B., Kingma, I., & Beek, P. J., & Smeets, J. B. J. (2012). The precision of 'haptic' rod length perception is reduced by lack of visual preview. In P. Isokoski & J. Springare (Eds.), *Haptics: Perception, devices, mobility, and communication* (pp. 19-24). Heidelberg: Springer Verlag.
74. Beek, P. J. (2013). Theorieën over motorisch leren en handelen. A. Motorisch leren. In R. van Empelen, R. Nijhuis-van der Sanden en A. Hartman (Red.), *Kinderfysiotherapie* (pp. 29-41). Amsterdam: Reed Business Education.
75. Beek, P. J., & Daffertshofer, A. (2014). Dynamical systems. In R. C. Eklund and G. Tenenbaum (Eds.), *Encyclopedia of Sport and Exercise Psychology, Vol. 1* (pp. 223-227). Los Angeles, CA: Sage publications.
76. Daffertshofer, A., & Beek, P. J. (2014). Modeling. In R. C. Eklund and G. Tenenbaum (Eds.), *Encyclopedia of Sport and Exercise Psychology, Vol. 2* (pp. 444-448). Los Angeles, CA: Sage publications.
77. Beek, P. J., & Roerdink, M. (2014). Evolving insights into motor learning and their implications for neurorehabilitation. In M. Selzer, S. Clarke, L. Cohen, G. Kwakkel, and R. Miller (Eds.), *Textbook of neural repair and rehabilitation* (pp. 95-104). Cambridge: Cambridge University Press.
78. Truong, K. P., Nieuwenhuys, A., Beek, P., & Evers, V. (2015). A database for analysis of speech under physical stress: detection of exercise intensity while running and talking. *Proceedings of Interspeech* (pp. 3705-3709). 16th Annual Conference of the International Speech Communication Association (ISCA), Interspeech 2015. Baixas, France: International Speech Communication Association.
79. Dukalski, R., Lukosch, S., Schwab, A., Bregman, D., Beek, P. J., & Brazier, F. M. (2020). Exploring the effect of pacing plan feedback for professional road cycling. International Sports Engineering Association 2020.

Books/Edited volumes

1. Meijer, O. G., & Beek, P. J. (1980). *Inleiding onderzoeksmethodiek (Deel I en II)* [An introduction to research methods—Part I and II]. Amsterdam: VU-Boekhandel.
2. Beek, P. J. (1989). *Juggling dynamics*. PhD Thesis. Faculty of Human Movement Sciences. Amsterdam: Vrije Universiteit Press. (ISBN 90-6256-849-1)
3. Beek, P. J., Bootsma, R. J., & van Wieringen, P. C. W. (Eds., 1991). *Studies in perception and action. Posters presented at the VI International Conference on Event Perception and Action*. Amsterdam: Rodopi. (ISBN 90-9004424-8)
4. Beek, P. J., & van Wieringen, P. C. W. (Eds., 1994). *Perception-movement, information and dynamics*. Special Issue of Human Movement Science. Amsterdam: North-Holland.
5. Brinker, B. P. L. M. den, Beek, P. J., Hollander, A. P., & Nieuwboer, R. T. (Eds., 1996). *Zesde Workshop Computers in de Psychologie. Programma & uitgebreide samenvattingen*. Amsterdam: IFKB. (ISBN 90-9009529-2)
6. Beek, P. J. (1998). *Sturen en coördineren*. Inaugurale rede. Amsterdam: Vrije Universiteit.
7. Brinker, B. P. L. M. den, Beek, P. J., Brand, A. N., Maarse, F. J., & Mulder, L. J. M. (Eds., 1999). *Cognitive ergonomics, clinical assessment and computer-assisted learning. Computers in Psychology, Vol. 6*. Lisse: Swets & Zeitlinger.
8. Beek, P. J., & van de Langenberg, R. (Eds., 2007). *European Workshop on Movement Science. Book of Abstracts 2007*. Köln: Sportverlag Strauß.

Technical reports

1. Beek, P. J., & Beek, W. J. (1987). A catalogue of nonlinear friction and elastic functions. *PAW-Review. A technical report of the Perceiving-Action Workshop in Ecological Psychology, 2(2)*, 6-9.
2. Beek, P. J. (1988). Tessellation of time in juggling and walking. *PAW-Review. A technical report of the Perceiving-Action Workshop in Ecological Psychology, 3(1)*, 22-25.
3. Beek, P. J. (1988). Discretizing the continuous in juggling. *PAW-Review. A technical report of the Perceiving-Action Workshop in Ecological Psychology, 3(2)*, 54-58.

4. Wimmers, R. H., Savelsbergh, G. J. P., Beek, P. J., & Hopkins, B. (1994). Are there phase transitions in the development of eye-hand coordination? *Annual Report 1992-1993, Research and Clinical Center for Child Development, Faculty of Education, Hokkaido University*, 16, 123-130.
5. Beek, P. J., Schmidt, R. C., Morris, A. W., Sim, M.-Y., & Turvey, M. T. (in press). Determining stiffness and friction terms in the pendular clocking mode of coordination. *PAW-Review. A technical report of the Perceiving-Action Workshop in Ecological Psychology*.
6. Dessing, J. C., Bullock, D., Peper, C. E., & Beek, P. J. (2001). A neural circuit model for prospective control of reaching. *Technical Report CAS/CNS-01-08*. Boston University Center for Adaptive Systems and Department of Cognitive and Neural Systems. Boston, USA.

Abstracts of conference papers

- Beek, P. J., & Beek, W. J. (1987). Model choice and parametric sensitivity in quantifying rhythmical movement. In: *Fourth International Conference on Event Perception and Action* (p. 34). Trieste: DEC Sistemi.
- Beek, P. J. (1988). Controle van arm- en handbewegingen tijdens jongleren. *De Psycholoog*, 22, 451.
- Beek, P. J. (1988). Timing and phase-locking in cascade juggling. In: *12th Meeting of the International Society for Ecological Psychology*, Antioch College, Yellow Springs, Ohio, Program and Abstracts, 3.
- Beek, P. J., & Beek, W. J. (1989). Discrete calculus and the phase plane: A catalogue of elementary functions. In: *Fifth International Conference on Event Perception and Action* (p. 34). Miami: Miami University.
- Beek, P. J. (1990). Implications of a dynamical analysis of timing in juggling for the proportional duration logic. In: *Sequencing and Timing of Human Movement* (p. 23). Wassenaar: N.I.A.S. Wassenaar.
- Beek, P. J. (1990). Knowing how to juggle: Dynamical basis of a complex learned skill. In: *Proceedings of the International Joint Conference on Neural Networks, Vol. III* (p. 645). Ann Arbor, MI: I.E.E.E. Neural Networks Council.
- Riel, M.-J. van, Beek, P. J., & van Wieringen, P. C. W. (1991). Phase transitions in rhythmic arm movements under different stimulus-response configurations. In: *Proceedings of the Sixth International Conference on Event Perception and Action* (p. 53). Amsterdam: Rodopi.
- Beek, P. J., Rikkert, W. E. I., & Sternad, D. (1992). Specificity in interlimb coordination. In: *Programme and Conference Abstracts of the Second European Conference on Ecological Psychology* (p. 9).
- Rikkert, W. E. I., Beek, P. J., & Beek, W. J. (1992). On the gating of energy in rhythmic arm movements performed under different dynamic conditions. In: *Programme and Conference Abstracts of the Second European Conference on Ecological Psychology* (p. 43).
- Beek, P. J., & van Santvoord, A. A. M. (1992). Over de wederkerige relatie tussen waarnemen en bewegen in cascade-jongleren (On the reciprocal relationship between perception and movement in cascade juggling). In: *Programme for the 3d meeting of the Dutch Contact Group for Ecological Psychology*.
- Wimmers, R. H., Savelsbergh, G. J. P., Beek, P. J., & Hopkins, B. (1993). Transitie in de ontwikkeling van het reiken [Developmental transitions in the development of reaching]. *Nederlands Tijdschrift voor Ontwikkelingspsychologie*, 20, 29-30.
- Brinker, B. P. L. M. den, Coolen, H., & Beek, P. J. (1993). Meten en analyseren met FAMS-lab. In F. J. Maarse & K. M. G. Kattenpoel Oude Heerink (Eds.), *5de workshop Computers in Psychology*. Nijmegen: NICI.
- Beek, P. J., & Santvoord, A. A. M. van (1993). Visual information for phasing in cascade juggling. In S. Serpa, J. Alves, V. Ferreira, A. Paula-Brito, D. Glencross, & G. Paull (Eds.), *Abstracts of the 8th World Congress of Sport Psychology* (p. 13).
- Santvoord, A. A. M. van, & Beek, P. J. (1993). Controlling nested subsystems in cascade juggling on the basis of optical information. In: *Proceedings of the VIth International Conference on Event Perception and Action* (p. 104).
- Verbeke, W., Beek, P. J., & Singh, J. (1993). Proposing a dynamical systems perspective about sales-client interactions. In: *Proceedings of the 22nd Conference of the European Marketing Academy, Vol. II* (p. 1515-1529). Barcelona: ESADE.
- Peper, C. E., Beek, P. J., & van Wieringen, P. C. W. (1993). Het tikken van polyritmen: Een dynamische benadering (Tapping polyrhythms: A dynamical approach). *Proceedings van het Vierde Congres van de Nederlandse Vereniging voor Psychonomie* (pp 93-94).
- Brinker, B. P. L. M. den, Coolen, H., & Beek, P. J. (1994). Fully automated movement science laboratory (FAMS-lab): experimental process control, data acquisition and analyses. In A. Trapp & N. Hammond (Eds.), *CIP94 Conference Handbook* (p. 23-24). CTI Centre for Psychology, University of York, UK.
- Beek, P. J. (1994). A dynamical systems approach to movement coordination. In L. Blankevoort & J. G. M. Kooloos (Eds.), *Second World Congress of Biomechanics: Abstracts Vol. II* (p 123).
- Peper, C. E., Beek, P. J., & van Wieringen, P. C. W. (1994). Dynamics of multifrequency behaviour. In L. Blankevoort & J. G. M. Kooloos (Eds.), *Second World Congress of Biomechanics: Abstracts Vol. II* (p 127).
- Peper, C. E., Beek, P. J., & van Wieringen, P. C. W. (1994). The control of polyrhythmic tapping. In: *Proceedings of the 23rd International Congress of Applied Psychology* (p 427).
- Peper, C. E., Beek, P. J., & van Wieringen, P. C. W. (1994). Tapping Dynamics. In: *Proceedings of the Fifth Workshop on Rhythm Production and Perception* (p 4).
- Peper, C. E., Beek, P. J., & van Wieringen, P. C. W. (1994). Asymmetrical coupling in multifrequency tapping: Fast hand dominates slow hand. In: *Proceedings of the Eighth International Conference on Perception and Action* (p 101).
- Beek, P. J. (1994). Dynamical models for the development of movement coordination and their implications for neural networks. In: *Models for Neural Development. Contributions of Neural Networks to Motor Control*, Department of Medical Physiology, University of Groningen (p. 9).
- Beek, P. J., & Peper, C. E. (1996). Acquiring coordination: A synergetic approach. In P. Marconnet, J. Gaulard, I. Margaritis, & F. Tessier (Eds.), *First Annual Congress. Frontiers in Sport Science. The European Perspective. Book of Abstracts* (p. 382-383).
- Peper, C. E., & Beek, P. J. (1997). The role of movement amplitude in rhythmic interlimb coordination. *Proceedings of the Fourth Biennial Motor Control & Human Skill Research Workshop* (p. 34).
- Jansen, C., Peper, C. E., & Beek, P. J. (1997). Het leren produceren van multifrequentie-patronen. *6e Wintercongres Nederlandse Vereniging voor Psychonomie. Programma & Abstracts* (p. 58).
- Jansen, C., Peper, C. E., & Beek, P. J. (1998). Learning dynamics in tapping multifrequency patterns. *Proceedings of the Seventh Workshop on Rhythm Production and Perception* (p. 29).
- Peper, C. E., Beek, P. J., & Daffertshofer, A. (1998). Internal clocks versus nonlinear oscillators? Toward an integrated model. *Proceedings of the Seventh Workshop on Rhythm Production and Perception* (p. 26).

- Daffertshofer, A., Beek, P. J., & Peper, C. E. (1999). Dynamical systems with timekeeper properties. *Proceedings of the Tenth International Conference on Perception and Action* (p. 47).
- Daffertshofer, A., Peper, C. E., Frank, T. D., & Beek, P. J. (1999). Spatio-temporal patterns of encephalographic signals during polyrhythmic tapping. *Proceedings of the international conference Progress in Motor Control II: Structure-function relations in voluntary movement* (p. 53).
- Daffertshofer, A. & Beek P. J. (1999). Data reduction: What is the relevant information and how to preserve it? Extended abstracts of the workshop "Computers in de Psychologie" (p. 51)
- Daffertshofer, A., Peper, C. E., Frank, T. D., & Beek, P. J. (1999). Spatio-temporal patterns of encephalographic signals during polyrhythmic tapping. *Proceedings of the Annual Meeting of the Society for Neuroscience* (p. 786).
- Beek, P. J. (2001). Views on expert performance in sport from the joint perspectives of ecological psychology and dynamical systems theory. In A. Papaioannou, M. Goudas, & Y. Theodorakis (Eds.), *Programme & Proceedings of the 10th World Congress of Sport Psychology, Vol. 3* (p. 357). Thessaloniki: Christodoulidi Publications.
- Post, A. A., Peper, C. E., & Beek, P. J. (2001). Coordination aspects of playground swinging. In V. Nougier, I. Olivier & P. Sarrazin (Eds.), *Actes de IX^{ème} Congrès International des Chercheurs en Activités Physiques et Sportives*. Valence: ACAPS.
- Beek, P. J., Peper, C. E., & Jagacinski, R. J. (2002). Stabilization and de-stabilization of relative phase in a unimanual tracking task. In C. Craig, L. Fernandez, & R. Bootsma, *7th European Workshop on Ecological Psychology* (p. 37). Marseille, University of the Mediterranean.
- Dessing, J., Bullock, D., Peper, C. E., & Beek, P. J. (2002). Prospective control of manual interceptive actions: Comparative simulations of extant and new model constructs. In C. Craig, L. Fernandez, & R. J. Bootsma, *7th European Workshop on Ecological Psychology* (p. 25). Marseille, University of the Mediterranean.
- Peper, C. E., Daffertshofer, A., & Beek, P. J. (2003). Modeling rhythmic interlimb coordination: A two-tiered model. In W. I. Schöllhorn, C. Bohn, J. M. Jäger, H. Schaper, & M. Alichmann (Eds.), *Book of Abstracts of the 1st European Workshop On Movement Science* (p. 28). Münster: University of Münster.
- Beek, P. J. (2003). Ergonomics and motor control. In T. Reilly & K. George (Eds.), *Abstract Booklet of the Fifth International Conference on Sport, Leisure and Ergonomics* (p. 6). Liverpool: John Moores University.
- Dessing, J. C., Peper, C. E., Bullock, D., & Beek, P. J. (2005). A dynamical neural network for catching an approaching ball. *Conference Proceedings of the Ninth International Conference on Cognitive and Neural Systems* (p. 66). Boston, MA, Boston University.
- de Poel, H. J., Peper, C. E., & Beek, P. J. (2005). Handedness-related asymmetries in bimanual coordination dynamics originate from an asymmetry in coupling strength. In H. Heft, K. L. Marsh, & L. D. Rosenblum (Eds.), *Proceedings of the 13th International Conference on Perception and Action* (p. 61). Monterey, CA, USA.
- Beek, P. J. (2007). Bilateral coordination in health and disease. In J. Kallio, P. V. Komi, J. Komulainen, & J. Avela (Eds.), *European College of Sport Science: Book of Abstracts of the 12th Annual Congress of the European College of Sport Science 11-14 July 2007* (p. 61). Jyväskylä: University of Jyväskylä, Finland.
- Beek, P. J. (2007). On the primacy of the dynamics of perception and action. In Y. Theodorakis, M. Goudas, & A. Papaioannou (Eds.), *12th European Congress of Sport Psychology: Book of Abstracts* (pp. 180-181). FEPSAC. University of Thessaly.
- Koedijker, J. M., Oudejans, R. R. D., & Beek, P. J. (2007). Rule formation and table tennis performance following explicit and analogy learning over 10,000 repetitions. In Y. Theodorakis, M. Goudas, & A. Papaioannou (Eds.), *12th European Congress of Sport Psychology: Book of Abstracts* (p. e157). FEPSAC. University of Thessaly.
- de Boer, B. J., Peper, C. E., & Beek, P. J. (2012). Changes in functional interlimb interactions when learning a new bimanual coordination pattern with an internal or external focus of attention. In A. Diaz, L. Lobo, D. Travieso, D. M. Jacobs, & P. Calvo (Eds.), *Program and proceedings of the 12th European Workshop on Ecological Psychology* (p. 24). Madrid, Spain (June 27-30).
- de Boer, B. J., Peper, C. E., & Beek, P. J. (2012). Development of spatial and temporal bimanual coordination during childhood. In M. Latash & J. Laczko (Eds.), *Motor Control Summer School* (p. 14-15). Tihany, Hungary (June 14-18).
- de Boer, B. J., Peper, C. E., & Beek, P. J. (2012). Development of spatial and temporal bimanual coordination during childhood. In *NCM 22nd Annual Meeting, Book of Abstracts* (p. 72). Venice, Italy (April 23-29).

Paper and poster presentations at professional meetings

- Beek, P. J., & Beek, W. J., A catalogue of nonlinear friction and elastic functions. Paper presented at the Perceiving-Action Workshop in Ecological Psychology, University of Connecticut, Storrs, U.S.A., 1987.
- Beek, P. J., & Beek, W. J., Model choice and parametric sensitivity in quantifying rhythmical movement. Paper presented at the Fourth International Conference on Event Perception and Action, Trieste, Italy, 1987.
- Beek, P. J., Tessellation of time in juggling and walking. Paper presented at the Perceiving-Action Workshop in Ecological Psychology, University of Connecticut, Storrs, CT, U.S.A., 1988.
- Beek, P. J., Controle van arm- en handbewegingen tijdens jongleren. (Control of arm and hand movements during juggling.) Paper presented at Psychologencongres (Nederlands Instituut van Psychologen). Katholieke Universiteit Tilburg, The Netherlands, 1988.
- Beek, P. J., Timing and phase-locking in cascade juggling. Paper presented at the 12th Meeting of the International Society for Ecological Psychology, Antioch College, Yellow Springs, OH, U.S.A., 1988.
- Beek, P. J., Discretizing the continuous in juggling. Paper presented at the Perceiving-Action Workshop in Ecological Psychology, University of Connecticut, Storrs, CT, U.S.A., 1989.
- Beek, P. J., & Beek, W. J., Discrete calculus and the phase plane: A catalogue of elementary functions. Paper presented at the Fifth International Conference on Event Perception and Action, Oxford, Miami, OH, U.S.A., 1989.
- Beek, P. J., Space-time tessellations in juggling. Invited paper presentation at the Workshop on Methodologies for Perceiving and Acting within An Intentional Context. Z.I.F., Bielefeld, F.R.G., 1989.
- Hopkins, B., & Beek, P. J., Effects of intrauterine growth retardation on social development. Paper presented at the Tenth Biannual Meeting of the International Society for the Study of Behavioural Development. Jyväskylä, Finland, 1989.
- Schmidt, R. C., Beek, P. J., Treffner, P., & Turvey, M. T., Dynamical patterning in coordinated rhythmic movements. Poster presented at the 15th Meeting of the International Society for Ecological Psychology, Dartmouth College, Hannover, NH, U.S.A., 1989.
- Beek, P. J., & Peper, C. E., The Farey tree and temporal invariance in rhythmic hand movements. Paper presented at the workshop on Ecological and Information Processing Approaches to Action Control. Faculty of Human Movement Sciences, Amsterdam, The Netherlands, 1990.

- Beek, P. J., Wimmers, R. H., & van Wieringen, P. C. W., Phase transitions in coordinated rhythmic movements: A confirmation of the informational threshold nonlinearity hypothesis. Paper presented at the 16th Meeting of the International Society for Ecological Psychology, Beckman Institute, University of Illinois, Champaign-Urbana, ILL, U.S.A., 1990.
- Beek, P. J., Inadequacies of the proportional duration model: Perspectives from a dynamical analysis of timing in juggling. Invited paper presentation at the International Conference on Sequencing and Timing of Human Movement, N.I.A.S., Wassenaar, The Netherlands, 1990.
- Beek, P. J., Knowing how to juggle: Dynamical basis of a complex learned skill. Invited paper presentation at the International Joint Conference on Neural Networks, San Diego, CA, 1990.
- Turvey, M. T., & Beek, P. J. Invariants of perception and action. Invited paper presentation at The Sixth Yale Workshop on Adaptive and Learning Systems, Center for Systems Science, Durham Laboratory, Yale University, New Haven, CT, 1990.
- Beek, P. J. Towards a dynamical theory of motor skill acquisition. Paper presented at the Perceiving-Action Workshop in Ecological Psychology, University of Connecticut, Storrs, CT, U.S.A., 1990.
- Peper, C. E., Beek, P. J., & van Wieringen, P. C. W., Bifurcations in bimanual tapping: In search of Farey principles. Paper presented at N.A.T.O. Advanced Study Institute on Tutorials in Motor Neuroscience, Ajaccio, France, 1991.
- Beek, P. J., Schmidt, R. C., Morris, A. W., M.-Y. Sim, & Turvey, M. T., Determining friction and damping terms in rhythmic movements. Poster presented at the 19th Meeting of the International Society for Ecological Psychology, Trinity College, Hartford, CT, U.S.A., 1991.
- Beek, P. J., Schmidt, R. C., Morris, A. W., M.-Y. Sim, & Turvey, M. T., Determining friction and damping terms in rhythmic movements. Poster presented at the Workshop on Symbols and Dynamic Representations, Indiana University, Bloomington, IN, U.S.A., 1991.
- Peper, C. E., Beek, P. J., & van Wieringen, P. C. W., Bifurcations in polyrhythmic tapping. Poster presented at the VIth International Conference on Event Perception and Action, Vrije Universiteit Amsterdam, The Netherlands, 1991.
- Riel, M.-J. van, Beek, P. J., & van Wieringen, P. C. W., Phase transitions in rhythmic arm movements under different stimulus-response configurations. Poster presented at the VIth International Conference on Event Perception and Action, Vrije Universiteit Amsterdam, The Netherlands, 1991.
- Rikkert, W. E. I., Beek, P. J., & Beek, W. J., In search of a physical underpinning of the coupling constants in coordinated rhythmic movements. Poster presented at the VIth International Conference on Event Perception and Action, Vrije Universiteit Amsterdam, The Netherlands, 1991.
- Rikkert, W. E. I., Beek, P. J., & van Wieringen, P. C. W., Limit cycle properties of coordinated rhythmic movements are limb-specific. Poster presented at the VIth International Conference on Event Perception and Action, Vrije Universiteit Amsterdam, The Netherlands, 1991.
- Santvoord, A. A. M. van, Beek, P. J., & Bootsma, R. J., Looking for place-of-contact information in a parabolic flight trajectory. Poster presented at the VIth International Conference on Event Perception and Action, Vrije Universiteit Amsterdam, The Netherlands, 1991.
- Beek, P. J., Waarnemen en bewegen: Een ondeelbare werkelijkheid (Perception and movement: An indivisible reality). Invited paper presentation at the 15th Winter Meeting of the "Belgische Vereniging voor Gerontologie en Geriatrie" (Belgian Society voor Gerontology and Geriatrics), Oostende, België, 1992.
- Beek, P. J., Invited participant of the Human Frontier Science Program Conference on The control and modulation of interlimb coordination: A multidisciplinary perspective. Katholieke Universiteit Leuven (Catholic University Leuven), Leuven, België, 1992.
- Beek, P. J., Rikkert, W. E. I., & Sternad, D., Specificity in interlimb coordination. Second European Conference on Ecological Psychology, University of Strathclyde, Glasgow, Scotland, 1992.
- Rikkert, W. E. I., Beek, P. J., & Beek, W. J., On the gating of energy in rhythmic arm movements performed under different dynamic conditions. Second European Conference on Ecological Psychology, University of Strathclyde, Glasgow, Scotland, 1992.
- Beek, P. J., & van Santvoord, A. A. M., Over de wederkerige relatie tussen waarnemen en bewegen in cascade-jongleren (On the reciprocal relationship between perception and movement in cascade juggling). Invited paper presentation at the 3d Meeting of the "Nederlandse Contactgroep voor Ecologische Psychologie" (Dutch Contact Group for Ecological Psychology), Amsterdam, Nederland, 1992.
- Beek, P. J., Phasing and the pick-up of information in cascade juggling. Invited paper presentation at the Eighteenth Annual Interdisciplinary Conference, Teton Village, Jackson Hole, WY, U.S.A., 1993.
- Beek, P. J., & Santvoord, A. A. M. van, Visual information for phasing in cascade juggling. Invited paper presentation at the 8th World Congress of Sport Psychology, Lisbon, Portugal, 1993.
- Peper, C. E., Beek, P. J., & van Wieringen, P. C. W., Training effects on coupling strength in bimanual rhythmic performance. Poster presented at the VIIth International Conference on Event Perception and Action, University of British Columbia, Vancouver, Canada, 1993.
- Peper, C. E., Beek, P. J., & van Wieringen, P. C. W., Het tikken van polyritmen: Een dynamische benadering. [Polyrhythmic tapping: A dynamical approach]. Paper presented at the Fourth Conference on Psychonomics, Noordwijkerhout, The Netherlands, 1993.
- Peper, C. E., Beek, P. J., & van Wieringen, P. C. W., Bimanual rhythmic performance: Mastering the interaction between the hands. Presented at the Symposium "Het leren van motorische vaardigheden" (Learning motor skills), 1993, Amsterdam, The Netherlands, 1993.
- Santvoord, A. A. M. van, & Beek, P. J., Optical information for cascade juggling. Poster presented at the VIIth International Conference on Event Perception and Action, University of British Columbia, Vancouver, Canada, 1993.
- Verbeke, W., Beek, P. J., & Singh, J., Proposing a dynamical systems perspective about sales-client interactions. Paper presented at the 22nd Conference of the European Marketing Academy, ESADE, Barcelona, Spain, 1993.
- Wimmers, R. H., Savelsbergh, G. J. P., Beek, P. J., & Hopkins, B., 'Stable states' and 'transitions' in the development of prehension. Poster presented at the VIIth International Conference on Event Perception and Action, University of British Columbia, Vancouver, Canada, 1993.
- Sternad, D., Beek, P. J., & Turvey, M. T., Mechanical perturbations of rhythmic forearm movements. Poster presented at the VIIth International Conference on Event Perception and Action, University of British Columbia, Vancouver, Canada, 1993.
- Beek, P. J., & van Wieringen, P. C. W., Ritmiek en dynamiek (Rhythm and dynamics). Paper presentation at a meeting of Psychon (the psychology section of the Dutch Science Foundation) on Movement Control, Maastricht, The Netherlands, 1994.
- Beek, P. J., Invited participant of the XIIIth New Technology and Work workshop on "Approaches to modeling the evolution and breakdown of adaptive systems". Werner-Reimers-Stiftung, Bad Homburg, FR Germany, 1994.
- Wimmers, R. H., Savelsbergh, G. J. P., Beek, P. J., & Hopkins, B., Sudden jumps in the development of grasping? Poster presented at the ISSBD Amsterdam, The Netherlands, 1994.

- Michaels, C. F., & Beek, P. J., The state of ecological psychology. Paper (key note lecture) presented at the Third European Workshop on Ecological Psychology, Borken-Hoxfeld, Ruhr-University Bochum, FR Germany, 1994.
- Beek, P. J., A dynamical systems approach to movement coordination. Paper (key note lecture) presented at the Second World Congress of Biomechanics, Amsterdam, The Netherlands, 1994.
- Peper, C. E., Beek, P. J., & van Wieringen, P. C. W., Dynamics of multifrequency behaviour. Paper presented at the Second World Congress of Biomechanics, Amsterdam, The Netherlands, 1994.
- Peper, C. E., Beek, P. J., & van Wieringen, P. C. W., The control of polyrhythmic tapping. Poster presented at the 23d International Congress of Applied Psychology, Madrid, Spain, 1994.
- Peper, C. E., Beek, P. J., & van Wieringen, P. C. W., Tapping dynamics. Paper presented at the Fifth Workshop on Rhythm Production and Perception, Sheffield, UK, 1994.
- Jagacinski, R. J., & Beek, P. J. Towards an integrated theory of polyrhythmic tapping. Paper presented at the Fifth Workshop on Rhythm Production and Perception, Sheffield, UK, 1994.
- Beek, P. J., Dynamical models for the development of movement coordination and their implications for neural networks. Invited paper presentation at the Workshop on Models for Neural Development. Contributions of Neural Networks to Motor Control, Groningen, The Netherlands, 1994.
- Peper, C. E., Beek, P. J., & van Wieringen, P. C. W., Asymmetrical coupling in multifrequency tapping: Fast hand dominates slow hand. Paper presented at the Eighth International Conference on Perception and Action, Marseille, France, 1995.
- Beek, P. J., Peper, C. E., Post, A. A., & Reijnen, J. S., Orbital stability of rhythmic forearm movements. Poster presented at the Eighth International Conference on Perception and Action, Marseille, France, 1995.
- Wimmers, R. H., Savelsbergh, G. J. P., Beek, P. J. & Hopkins, B., Preliminary evidence for a developmental transition from reaching to grasping proper. Poster presented at the Eighth International Conference on Perception and Action, Marseille, France, 1995.
- Beek, P. J., & Peper, C. E., Acquiring coordination: A synergetic approach. Paper presented at the First Annual Congress of the European College of Sport Science, Nice, France, 1996.
- Barr, R. G., & Beek, P. J., Can a dynamic systems approach better account for the phenomenology of behavioral states? Paper presented at the XIVth Biennial ISSBD Conference, Québec City, Canada, 1996.
- Brinker, B. P. L. M. den, Bruggeman, H., & Beek, P. J., The effect of window width and window height on reading connected text with a CCTV magnifier. Paper presented at the International Conference on Low Vision, Madrid, O.N.C. E., 1996.
- Soest, A. J., & Beek, P. J., Perceptual-motor coupling in the execution of fast-interceptive actions. Paper presented at the 1996 London Conference of the British Psychological Society, London, 1996.
- Beek, P. J., Peper, C. E., & Daffertshofer, A., Pattern dynamics of multifrequency tapping. Invited paper presentation at the symposium "Complex phenomena in cognitive processes", Zentrum für Nichtlineare Dynamik, Institut für Theoretische Physik und Astrophysik, Universität Potsdam, Potsdam, Germany, 1996.
- Beek, P. J., Wat de theorie over dynamische systemen kan bijdragen aan de studie van oogbewegingen (What the dynamical system approach can contribute to the study of eye movements). Invited paper presentation at the 6th Meeting of the "Nederlandse Contactgroep voor Ecologische Psychologie" (Dutch Contact Group for Ecological Psychology), Rotterdam, Nederland, 1996.
- Barr, R. G., Beek, P. J., & Calinoiu, N., Challenges to nonlinear modelling of infant emotion regulation in real and developmental time. Invited paper presented at the symposium "Non-linear analyses of developmental processes", The Royal Netherlands Academy of Arts and Sciences, Het Trippenhuis, Amsterdam, The Netherlands, 1997.
- Beek, P. J., Peper, C. E., Soest, A. J. van, Daffertshofer, A., & Meijer, O. G. Studying perception and movement from mutually constraining perspectives. Invited paper presentation at the 2nd IFKB Symposium "Models in human movement sciences", Faculty of Human Movement Sciences, Amsterdam, 1997.
- Beek, P. J. Van sturing naar coördinatie (From control to coordination). Invited paper presentation at the 2nd Symposium of the "Nederlandse Vereniging voor Bewegingswetenschappen" (Dutch Society for Human Movement Sciences), "Bewegen is problemen oplossen", Amsterdam, Nederland, 1997.
- Post, A. A., & Beek, P. J. Measuring entropy in cascade juggling. Poster presented at the Ninth International Conference on Perception and Action, Toronto, Canada, 1997.
- Peper, C. E., & Beek, P. J. The role of amplitude in frequency-induced transitions. Poster presented at the Ninth International Conference on Perception and Action, Toronto, Canada, 1997.
- Amazeen, E. L., Amazeen, P. G., Post, A. A., & Beek, P. J. Perception-action coupling in juggling. Poster presented at the Ninth International Conference on Perception and Action, Toronto, Canada, 1997.
- Sternad, D., Beek, P. J., & Turvey, M. T. Mechanical perturbations of rhythmic forearm movements. Poster presented at the Ninth International Conference on Perception and Action, Toronto, Canada, 1997.
- Beek, P. J., Amazeen, P. G., Post, A. A. Quantifying the evolution of oscillating components during the acquisition of rhythmic perceptual-motor skills. Paper presented at the VIIème Congrès International de l'Association des Chercheurs en Activités Physiques et Sportives. Marseille, France, 1997 (3-5 Novembre).
- Beek, P. J. Tacit learning, coordination, and feedback: A reaction to Richard Masters. Invited reaction to a target presentation at the Scientific Sport Psychology Workshop, Amsterdam, The Netherlands, 1997.
- Jansen, C., Peper, C. E., & Beek, P. J. Het leren produceren van multifrequentiepatronen (Learning to tap multifrequency patterns). Poster presented at the 6e Wintercongres Nederlandse Vereniging voor Psychonomie (p. 58). Egmond aan Zee, The Netherlands, 1997.
- Beek, P. J., & Tamboer, J. W. I. "Ships passing in the night": Onnutte kennis of niet benutte kennis? Invited paper presentation at the Symposium "Bewegen tussen wetenschap en praktijk" ("Movement between science and practice"), organized by Windesheim (CALO), Zwolle, The Netherlands, 1998.
- Amazeen, E. L., Amazeen, P. G., Post, A. A., & Beek, P. J. Timing the selection of visual information for catching. NASPSA, 1998.
- Amazeen, P. G., Amazeen, E. L., & Beek, P. J. Locomotor-respiratory coupling in wheelchair propulsion. NASPSA, 1998.
- Amazeen, E. L., Amazeen, P. G., Post, A. A., & Beek, P. J. Timing the selection of visual information in rhythmic throwing. Paper presented at the Fifth European Workshop on Ecological Psychology. Abbaye des Prémontrés, Pont-à-Mousson, France, 1998.
- Amazeen, P. G., Amazeen, E. L., & Beek, P. J. The effect of experience on locomotor-respiratory coupling during wheelchair propulsion. Paper presented at the Fifth European Workshop on Ecological Psychology. Abbaye des Prémontrés, Pont-à-Mousson, France, 1998.
- Peper, C. E., & Beek, P. J. Examining the role of movement amplitude in rhythmic coordination. Paper presented at the Fifth European Workshop on Ecological Psychology. Abbaye des Prémontrés, Pont-à-Mousson, France, 1998.

- Beek, P. J. Complex dynamics. Invited tutorial presented at the Seventh Workshop on Rhythm Production and Perception, NIAS, Wassenaar, The Netherlands, 1998.
- Peper, C. E., Beek, P. J., & Daffertshofer, A. Internal clocks versus nonlinear oscillators? Towards an integrated model. Paper presented at the Seventh Workshop on Rhythm Production and Perception, NIAS, Wassenaar, The Netherlands, 1998.
- Jansen, C., Peper, C. E., & Beek, P. J. Learning dynamics in tapping multifrequency patterns. Paper presented at the Seventh Workshop on Rhythm Production and Perception, NIAS, Wassenaar, The Netherlands, 1998.
- Berg, C. van den, & Beek, P. J. Aandoening of aanpassing? Invited lecture on the "NOW Publieksdag Hersenonderzoek", October 22, Utrecht, The Netherlands, 1999.
- Beek, P. J. Coördinatie en sturing (Coordination and control). Congres "Knie-operatie en –revalidatie; hoe individueel is een protocol? Nederlands Paramedisch Instituut, November 23, 1998, Arnhem (Papendal), The Netherlands.
- Berg, C. van den, Beek, P. J., van Wieringen, P. C. W., & Wagenaar, R. C. Coordination disorders of patients with Parkinson's disease. Paper presented at the Xth International Conference on Perception and Action, August 9-13, Edinburgh, Scotland, 1999.
- Beek, P. J. Reciprocal relations between perceiving and moving in complex actions. Invited Paper presentation at The First Icron Meeting on Sensorimotor Integration, Nijmegen, March 5, 1999.
- Peper, C. E., Beek, P. J., Carson, R. G., & Daffertshofer, D. Modeling rhythmic interlimb coordination. Paper presented at the Department of Cognitive and Linguistic Sciences, Brown University, Providence RI, USA, May 6, 1999; Center for the Ecological Study of Perceiving and Acting, University of Connecticut, Storrs CT, USA, May 7, 1999, and Department of Physical Therapy, Sargents College of Health and Rehabilitation Sciences, Boston University, Boston, USA, May 11, 1999.
- Daffertshofer, A., Beek, P. J., & Peper, C. E. (1999). Dynamical systems with timekeeper properties. Paper presented at the "Tenth International Conference on Perception and Action", Edinburgh, UK, August 8-14.
- Daffertshofer, A., Peper, C. E., Frank, T. D., & Beek, P. J. (1999). Spatio-temporal patterns of encephalographic signals during polyrhythmic tapping. Paper presented at the workshop "Modeling Action and Perception: Debates in Dynamics", University Park, PA, USA, August 16-19.
- Daffertshofer, A., Peper, C. E., Frank, T. D., & Beek, P. J. (1999). Spatio-temporal patterns of encephalographic signals during polyrhythmic tapping. Presented at the "International Conference Progress in Motor Control II: Structure-function relations in voluntary movement", University Park, PA, USA, August 19-22.
- Daffertshofer, A., & Beek, P. J. Data reduction: What is the relevant information and how to preserve it? Paper presented at Zevende Workshop Computers in de Psychologie, Utrecht, The Netherlands, September 16, 1999.
- Daffertshofer, A., Peper, C. E., Frank, T. D., & Beek, P. J. (1999). Spatio-temporal patterns of encephalographic signals during polyrhythmic tapping. Presented at the "Annual Meeting of the Society for Neuroscience", Miami Beach FL, USA, October 23-28.
- Beek, P. J. Looking in time. Key-note lecture presented at the First International Conference of the Sports Vision Association, UMIST, Manchester, UK, September 25, 1999.
- Beek, P. J., Daffertshofer, A., & Peper, C. E. Complex dynamics: Toward an understanding of bimanual coordination. Invited lecture at the Workshop Synchronization and Coordination in Human Movement Timing, University of Potsdam, Potsdam, Germany, October 1, 1999.
- Peper, C. E., Beek, P. J. & Carson, R. G. Testing dynamical models of rhythmic interlimb coordination. Invited lecture at the Workshop Synchronization and Coordination in Human Movement Timing, University of Potsdam, Potsdam, Germany, October 1, 1999.
- Beek, P. J. Coordination and vision in juggling. Invited keynote lecture at the 5th Biennial Motor Control and Human Skill Research Workshop, Surfers' Paradise, Gold Coast, Australia, January 29, 2000.
- Beek, P. J., Oudejans, R. R. D., & Verheijen, R. Fluiten en vlaggen (Whistling and flagging). Invited lecture at the Congress entitled "Voetbal en (be)letsels". Stichting Sport en Orthopaedie, Arnhem (Papendal), The Netherlands, June 21, 2000.
- Frank, T. D., Daffertshofer, A., Peper, C. E., & Beek, P. J. Bifurcations in brain activity modelled by coupled rotator systems subjected to noise. Poster Presentation at "Dynamics Days 2000", University of Surrey, Guildford, UK, June 25-30, 2000.
- Beek, P. J., & Peper, C. E. Dynamics and cognition in bimanual rhythmic coordination. Invited paper presentation at the International Workshop on Computational Handwriting Models. Nijmegen Institute for Cognition and Information, University of Nijmegen, The Netherlands, June 28-30, 2000.
- Beek, P. J. Invited observer at the XIX conference of The International Association for the Study of Attention and Performance, "Attention and Performance XIX: Common mechanisms in perception and action". Kloster Irsee, Germany, July 16-22, 2000.
- Beek, P. J. Cognition and dynamics: Integrated modelling of pattern formation in brain and behaviour. Invited keynote lecture at "BASES 2000", British Association of Sport and Exercise Sciences, Liverpool, UK, August 30, 2000.
- Huys, R., & Beek, P. J. The coupling between gaze excursions and ball movements in 3-ball cascade juggling: The effects of expertise, pattern and tempo. Invited lecture at "BASES 2000", British Association of Sport and Exercise Sciences, Liverpool, UK, September 1, 2000.
- Beek, P. J., Views on expert performance in sport from the joint perspectives of ecological psychology and dynamical systems theory. Invited lecture at the 10th World Congress of Sport Psychology, Skiathos, Greece, May 31, 2001.
- Dessing, J. C., Bullock, D., Peper, C. E., & Beek, P. J., Prospective control of manual interceptive actions: Comparative simulations of extant and new model constructs. Poster presented at the XI International Conference on Perception and Action, Storrs, CT, USA, June 25-29, 2001.
- Beek, P. J., Gecoördineerd bewegen. Tweede deel van de diesrede van de Vrije Universiteit, getiteld Stilstaan bij bewegen. (Coordinated movement. Second part of the anniversary lecture of the Vrije Universiteit, entitled Contemplating about movement.) Vrije Universiteit Amsterdam, October 19, 2001.
- Post, A., Peper, C. E., & Beek, P. J., Coordination aspects of playground swinging. Paper presented at the IX^{ème} Congrès International des Chercheurs en Activités Physiques et Sportives ACAPS (Association for researchers in physical activities and sports), Valence, France, November 2, 2001.
- Dessing, J. C., Bullock, D., Peper, C. E., & Beek, P. J., Prospectieve sturing van interceptieve taken: Simulaties van bestaande en nieuwe modellen (Prospective control of interceptive actions: Simulations of extant and new models). Paper presented at the Presented at the Eighth Winterconference of the Dutch Society for Psychonomics, Egmond aan Zee, December 14-15, 2001.
- Beek, P. J., Daffertshofer, A., Peper, C. E., & van Soest, A. J., Integrated modeling of neural and musculoskeletal dynamics. Paper presented at the Human Movement Sciences Symposium on Perception and Action, Faculty of Human Movement Sciences, Amsterdam, The Netherlands, January 18, 2002.

- Beek, P. J., *Bewegingswetenschappen: Een persoonlijke kijk* (Human movement sciences: A personal view). An invited lecture at the initiation meeting of the VvBN (Dutch Society of Human Movement Sciences), Utrecht, March 14, 2002.
- Beek, P. J., Dessing, J. C., Peper, C. E., & Bullock, D., *Modelling the control of interceptive actions*. Invited paper presentation at the symposium "Modelling in biomechanics" at the Annual Meeting of the Society for Experimental Biology, Swansea, April 9, 2002.
- Beek, P. J., Daffertshofer, A., & Peper, C. E., *Cycling between randomness and structure; reflections on brain activity and behavior*. Invited paper presentation at the conference "Coordination dynamics 2002" at the Center for Complex Systems & Brain Sciences, Delray Beach, Florida, USA, May 10-11.
- Beek, P. J., Peper, C. E., & Jagacinski, R. J., *Stabilization and de-stabilization of relative phase in a unimanual tracking task*. Paper presented at the 7th European Workshop for Ecological Psychology, Bendor Island, France, July 4-6, 2002.
- Dessing, J. C., Bullock, D., Peper, C. E., & Beek, P. J., *Prospective control of manual interceptive actions: Comparative simulations of extant and new model constructs*. Paper presented at the 7th European Workshop for Ecological Psychology, Bendor Island, France, July 4-6, 2002.
- Atchy-Dalama, P., Zanone, P. G., Peper, C. E., & Beek, P. J. *Effects of symmetry breaking on learning a bimanual coordination pattern*. Poster presented at the 1st Meeting of Complex Systems and Sport, Barcelona, Spain, May 14-15, 2003.
- Peper, C. E., Daffertshofer, A., & Beek, P. J., *Modeling rhythmic interlimb coordination: A two-tiered model*. Paper presented at the 1st European Workshop On Movement Science (EWOMS), Münster, Germany, May 22-24, 2003.
- Daffertshofer, A., Peper, C. E., & Beek, P. J., *Stabilization of bimanual coordination due to active inhibition — evidence from phase transitions*. Paper presented at the Sensorimotor Coordination 2003 Behavioural Modes and Neural Mechanisms, Frazer Island, Australia, July 6-9, 2003.
- Huys, R., Daffertshofer, A., & Beek, P. J., *En route towards juggling dexterity: The assembly of functional subsystems into a task-specific dynamical organization*. Paper presented at the Sensorimotor Coordination 2003 Behavioural Modes and Neural Mechanisms, Frazer Island, Australia, July 6-9, 2003.
- Beek, P. J., & Daffertshofer, A., *Towards a theory-based clinimetrics of movement*. Paper presented at the Sensorimotor Coordination 2003 Behavioural Modes and Neural Mechanisms, Frazer Island, Australia, July 6-9, 2003.
- Ridderikhoff, A., Peper, C. E., Carson, R. G., & Beek, P. J., *Musculoskeletal dynamics of the wrist during rhythmic activity*. Paper presented at the Sensorimotor Coordination 2003 Behavioural Modes and Neural Mechanisms, Frazer Island, Australia, July 6-9, 2003.
- Dessing, J., Caljouw, S., Peper, C. E., & Beek, P. J., *A neural control structure for hitting*. Poster presented at the Sensorimotor Coordination 2003 Behavioural Modes and Neural Mechanisms, Frazer Island, Australia, July 6-9, 2003.
- Daffertshofer, A., Peper, C. E., & Beek, P. J., *(De-)stabilization of bimanual coordination due to active inhibition*. Paper presentation at the 12th International Conference on Perception and Action, Surfers' Paradise Gold Coast, Australia, July 13-18, 2003.
- Huys, R., Daffertshofer, A., & Beek, P. J., *En route towards juggling dexterity: The assembly of functional subsystems into a task-specific dynamical organization*. Paper presented at the 12th International Conference on Perception and Action, Surfers' Paradise Gold Coast, Australia, July 13-18, 2003.
- Dessing, J., Caljouw, S., Peper, C. E., & Beek, P. J., *A neural control structure for hitting*. Poster presented at the 12th International Conference on Perception and Action, Surfers' Paradise Gold Coast, Australia, July 13-18, 2003.
- Dessing, J., Peper, C. E., & Beek, P. J., *A comparison of real catching with catching in a CAVE*. Poster presented at the 12th International Conference on Perception and Action, Surfers' Paradise Gold Coast, Australia, July 13-18, 2003.
- Ridderikhoff, A., Peper, C. E., Carson, R. G., & Beek, P. J., *Musculoskeletal dynamics of the wrist during rhythmic activity*. Poster presented at the 12th International Conference on Perception and Action, Surfers' Paradise Gold Coast, Australia, July 13-18, 2003.
- Atchy-Dalama, P., Zanone, P. G., Peper, C. E., & Beek, P. J. *How is behavioral information integrated in the coordination dynamics? The role of sensory information*. Poster presented at the Xème Congrès International des Chercheurs en Activités Physiques et Sportives ACAPS (Association for researchers in physical activities and sports), Toulouse, France, October 30-November 1, 2003.
- Beek, P. J., *Ergonomics and motor control*. Invited keynote lecture at the Fifth International Conference on Sport, Leisure and Ergonomics. Burton Manor, The Wirral, United Kingdom, November 19-21, 2003.
- Beek, P. J., *Measurement of limb movements*. Invited tutorial at the Workshop Motor Control for Vision Scientists of the Perception for Recognition and Action program, Lunteren, The Netherlands, January 7-11, 2004.
- Dessing, J., Peper, C. E., and Beek, P. J., *Effects of background motion on hand movements in ball catching*. Poster presented at the Workshop Motor Control for Vision Scientists of the Perception for Recognition and Action program, Lunteren, The Netherlands, January 7-11, 2004.
- Roerdink, M., Peper, C. E., and Beek, P. J., *The role of feedback in rhythmic visuomotor tracking: Stability and visual search patterns*. Poster presented at the 8th European Workshop on Ecological Psychology, Verona, Italy, June 26-29, 2004.
- de Oliveira, R. F., Oudejans, R., & Beek, P. J., *Aiming at a far target with intermittent viewing*. Poster presented at the 8th European Workshop on Ecological Psychology, Verona, Italy, June 26-29, 2004.
- Beek, P. J., *Perceptual-motor learning. On abundance, selection and change*. Invited keynote lecture at the Satellite Symposium: Motor Behaviour of the 9th Annual Congress of the European College of Sport Science. Clermont-Ferrand, France, July 3, 2004.
- Huys, R., & Beek, P. J., *Visual search patterns in the perception and production of relative motion*. Paper presented at the Satellite Symposium: Motor Behaviour of the 9th Annual Congress of the European College of Sport Science. Clermont-Ferrand, France, July 3, 2004.
- Beek, P. J., *A dynamical systems perspective on expertise in sports*. Invited paper presentation at the III Congreso Vasco del Deporte y socialización. Vitorio-Gasteiz, Spain, November 12, 2004.
- Roerdink, M., de Haart, M., Donker, S. F., Geurts, A. C., & Beek, P. J., *Postural sway complexity changes with recovery after stroke: Findings from dynamical analyses*. *Gait & Posture*. Marseille, France, June 2005.
- Roerdink, M., Donker, S. F., & Beek, P. J., *A methodological note to the sway-density curve: Number of peaks scales with cut-off frequency*. *Gait & Posture*. Marseille, France, June 2005.
- de Oliveira, R. F., Oudejans, R., & Beek, P. J., *Visual control of aiming at a far target*. Paper presented at the 11th World Congress on Sport Psychology, Sydney, Australia, August 14-19, 2004.
- Dessing, J. C., Peper, C. E., Bullock, D., & Beek, P. J., *A dynamical neural network for catching an approaching ball*. Paper presented at the Ninth International Conference on Cognitive and Neural Systems, Boston, MA, USA, March 2005.
- Boonstra, T. W., Daffertshofer, A., and Beek, P. J. *Cognitive modulation of neuronal dynamics in human action control*. Poster presented at the "Biomove up and running" meeting of the European Consortium for Research into Biological Movement. Manchester Metropolitan University, Manchester, UK, April 6-7, 2005.

- Boonstra, T. W., Daffertshofer, A., and Beek, P. J. Effects of fatigue on event-related fields and alpha activity during rhythmic force production. Paper presented at the "Biomove up and running" meeting of the European Consortium for Research into Biological Movement. Manchester Metropolitan University, Manchester, UK, April 6-7, 2005.
- Roerdink, M., Peper, C. E., and Beek, P. J. The role of feedback in rhythmic visuomotor tracking: Stability and visual search patterns. Poster presented at the "Biomove up and running" meeting of the European Consortium for Research into Biological Movement. Manchester Metropolitan University, Manchester, UK, April 6-7, 2005.
- Dessing, J. C., Peper, C. E., Bullock, D., & Beek, P. J., A dynamical neural network for catching an approaching ball. Paper presented at the Ninth International Conference on Cognitive and Neural Systems, Boston (ICCNs), MA, USA, May 2005.
- Beek, P. J., Veranderde bewegingssturing van de arm en hand na CVA. (Changes in motor control of arm and hand after stroke.) Invited paper presentation at the symposium "Hoe lang ga je door met therapie?" ("How long to continue with therapy?"). Symposium over arm- en handmotoriek na CVA: Actuele aspecten van de revalidatie. June 27, 2005.
- de Poel, H. J., Peper, C. E., & Beek, P. J., Handedness and asymmetry in the strength of interlimb coupling. Paper presented at the Thirteenth International Conference on Perception and Action. Pacific Grove, CA, July 5-10, 2005.
- Boonstra, T. A., Wei, K., Beek, P. J., & Sternad, D., Variability and stability during the acquisition of ball bouncing. Poster Presented at Progress in Motor Control V. A multidisciplinary perspective. Pennsylvania State University, State College, Pennsylvania, August 19, 2005.
- de Poel, H. J., Peper, C. E., & Beek, P. J., Asymmetries in bimanual coordination: Effects of handedness, directed attention and amplitude. Paper presented at the Ninth European Workshop on Ecological Psychology. Groningen, The Netherlands, July 6-8, 2006.
- Frank, T. D., Wilmer, A., Friedrich, R., & Beek, P. J., Identifying the impact of perceptual information in paced and self-paced human motor control systems with neurophysiological time delays. Paper presented at the Ninth European Workshop on Ecological Psychology. Groningen, The Netherlands, July 6-8, 2006.
- de Oliveira, R. F., Oudejans, R., & Beek, P. J., Shooting in the dark. Paper presented at the 3rd Workshop of the European Network of Young Specialists in Sport Psychology, Lisbon, Portugal, November 17-18, 2006.
- van de Langenberg, R., Kingma, I., & Beek, P. J., Further evidence for a role of the center of mass in the perception of limb orientation. Paper presented at the Ninth European Workshop on Ecological Psychology. Groningen, The Netherlands, July 6-8, 2006.
- Koedijker, J., Oudejans, R. R. D., & Beek, P. J., Deautomatization and relearning in perceptual-motor performance. Paper presented at the Ninth European Workshop on Ecological Psychology. Groningen, The Netherlands, July 6-8, 2006.
- de Oliveira, R. F., Oudejans, R., & Beek, P. J., Shooting in the dark. Paper presented at the 9th European Workshop on Ecological Psychology. Groningen, The Netherlands, July 6-8, 2006.
- Roerdink, M., Ophoff, E., Peper, C. E., & Beek, P. J., Anchoring: A window into the control of perceptual-motor tasks. Paper presented at the Ninth European Workshop on Ecological Psychology. Groningen, The Netherlands, July 6-8, 2006.
- Selen, J. P. J., Beek, P. J., & van Dieën, J. H., Joint impedance attenuates neuro-muscular noise during target tracking. Paper presented at the Fifth World Congress of Biomechanics, Munich Germany, July 29-August 4, 2006.
- Beek, P. J., Dissecting coordination dynamics. Arthur Iberall Memorial Lecture. Center for the Ecological Study of Perception and Action, University of Connecticut, Storrs, USA, December 1, 2006.
- Smeeton, N., Huys, R. H., Beek, P. J., & Williams, A. M., Low dimensional information underlies anticipation skill in tennis. Paper presented at the Third European Workshop on Movement Science (EWOMS), Amsterdam, The Netherlands, May 31-June 2, 2007.
- de Oliveira, R. F., Oudejans, R. R. D., & Beek, P. J., Current insights into the visual basis of basketball shooting. Paper presented at the Third European Workshop on Movement Science (EWOMS), Amsterdam, The Netherlands, May 31-June 2, 2007.
- van Mourik, A. M., Daffertshofer, A., & Beek, P. J., Towards an appropriate analysis of the dynamics of human movement. Paper presented at the Third European Workshop on Movement Science (EWOMS), Amsterdam, The Netherlands, May 31-June 2, 2007.
- Ridderikhoff, A., Peper, C. E., Daffertshofer, A., & Beek, P. J., Teasing apart sources of interlimb interactions. Paper presented at the Third European Workshop on Movement Science (EWOMS), Amsterdam, The Netherlands, May 31-June 2, 2007.
- Roerdink, M., de Haart, M., Daffertshofer, A., Donker, S. F., Geurts, A. C. H., & Beek, P. J., Sway regularity depends on the amount of attention invested in postural control: Findings from patients recovering from stroke. Paper presented at the Third European Workshop on Movement Science (EWOMS), Amsterdam, The Netherlands, May 31-June 2, 2007.
- van Ulzen, N., Daffertshofer, A., Lamoth, C. J. C., Semin, G. R., & Beek, P. J., Signs of interpersonal coordination while walking in pairs. Paper presented at the Third European Workshop on Movement Science (EWOMS), Amsterdam, The Netherlands, May 31-June 2, 2007.
- de Poel, H. J., Peper, C. E., & Beek, P. J., Disentangling the effects of attention and amplitude on interlimb coordination asymmetry. Poster presented at the Third European Workshop on Movement Science (EWOMS), Amsterdam, The Netherlands, May 31-June 2, 2007.
- Lamoth, C. J. C., Stins, J. F., Nieuwenhuis, L., van Gulik, S., Pont, M., Kerkhoff, F., & Beek, P. J., Attentional influences on normal and pathological gait. Poster presented at the Third European Workshop on Movement Science (EWOMS), Amsterdam, The Netherlands, May 31-June 2, 2007.
- Roerdink, M., Lamoth, C. J. C., Kwakkel, G., van Wieringen, P. C. W., & Beek, P. J., Acoustically paced treadmill walking following stroke. Poster presented at the Third European Workshop on Movement Science (EWOMS), Amsterdam, The Netherlands, May 31-June 2, 2007.
- Lamoth, C. J. C., Roerdink, M., & Beek, P. J., Acoustically paced treadmill walking requires more attention than unpaced treadmill walking in healthy young adults. Poster presented at the Third European Workshop on Movement Science (EWOMS), Amsterdam, The Netherlands, May 31-June 2, 2007.
- van de Langenberg, R., Kingma, I., & Beek, P. J., The implication of mechanical invariants in dynamic touch depends on their contribution to the muscular torques. Poster presented at the Third European Workshop on Movement Science (EWOMS), Amsterdam, The Netherlands, May 31-June 2, 2007.
- Beek, P. J. Bilateral coordination in health and disease. Paper presented at the the 12th Annual Congress of the European College of Sport Science (ECSS), Jyväskylä, Finland, July 11-14, 2007.
- Lamoth, C. J. C., van Lummel, R. C., & Beek, P. J. Characterization of dynamic patterns of postural sway using accelerometry. ICAMPAM, Rotterdam, The Netherlands, May 21-24, 2008.
- Beek, P. J. On the primacy of the dynamics of perception and action. 12th European Congress of Sport Psychology, Halkidiki, Greece, September 4-9, 2007.
- Koedijker, J. M., Oudejans, R. R. D., & Beek, P. J. Rule formation and table tennis performance following explicit and analogy learning over 10,000 repetitions. 12th European Congress of Sport Psychology, Halkidiki, Greece, September 4-9, 2007.

- Beek, P. J. Anchoring – theory, methods and findings. Invited keynote lecture at the 9th Biennial Motor Control and Human Skill Research Workshop, Hobart, Tasmania, Australia, January 28-31, 2009.
- Roerdink, M., Stins, J. F., & Beek, P. J. Sway regularity indexes the attention invested in postural control: synthesis and guidelines for future examination. Paper presented at the ISPRG XIX Satellite PreConference. Basic mechanisms underlying balance control under static and dynamic conditions. Pavia, Italy, June 19-20, 2009.
- Beek, P. J. Coordination dynamics as a window into motor control. Invited keynote lecture at the 7th edition of Progress in Motor Control, Marseille, France, July 23-25, 2009.
- Beek, P. J. Coordination dynamics of skill, skill learning and expertise. Invited keynote lecture at Skills 09 Enaction on Skills, the 1st International Conference on Multimodal Interfaces for Skill Transfer, Bilbao, Spain, December 15-16, 2009.
- de Boer, B. J., Peper, C. E., & Beek, P. J. How movement frequency affects the sources of interlimb interactions underlying bimanual coordination. Paper presented at the Eleventh European Workshop on Ecological Psychology. Fréjus, France, 2010.
- Bruijn, S. M., Bregman, D. J. J., Meijer, O. G., Beek, P. J., & van Dieën, J. H. The validity of stability measures: A modelling approach. Paper presented at the 16th US National Congress on Theoretical and Applied Mechanics, University Park, Pennsylvania, USA, 2010.
- van Dieën, J. H., Bruijn, S. M., Toebes, M. J. P., Meijer, O. G., Hoozemans, M. J. M., Pijnappels, M., & Beek, P. J., Estimating fall risk from unperturbed gait using gait variability and stability measures obtained with inertial sensors. Paper presented at the 6th World Congress on Biomechanics, Singapore, Singapore, 2010.
- Beek, P. J., 40 jaar bewegingswetenschappen in Nederland. VVBN Symposium 2011, Vereniging voor Bewegingswetenschappen Nederlands, Utrecht, March 25, 2011.
- Beek, P. J. New theoretical insights into motor learning and their practical significance. Key-note lecture at the 9. Gemeinsames Symposium der dvs-Sektionen Biomechanik, Sportmotorik und Trainingswissenschaften. "NeuroMotion": Aufmerksamkeit, Automatisierung, Adaptation. Westfälische Wilhelms Universität, Münster, Germany, March 21, 2012.
- Heeren, J., van Ooijen, M., Janssen, T., Beek, P., Geurts, A., Roerdink, M., & Weerdesteijn, V. C-Mill therapy improves gait adaptability in the chronic phase after stroke. Poster presented at the 7th World Congress for NeuroRehabilitation, Melbourne, Australia, May 16-19, 2012.
- Beek, P. J. Anchoring: A window into the neural control of movement. La journée scientifique de l'Institut des Sciences du Cerveau de Toulouse. Invited lecture. May 29, 2012.
- de Boer, B. J., Peper, C. E., & Beek, P. J. How movement frequency affects interlimb interactions underlying bimanual coordination. Poster presented at FENS.
- van Delden, L., Peper, C. E., Kwakkel, G., & Beek, P. J. Upper limb Training After stroke: Contrasting the clinical effects and underlying mechanisms of unilateral and bilateral training.
- Hak, L., Houdijk, H., Steenbrink, F., Mert, A., van der Wuff, P., Beek, P. J., & van Dieën, J. H. Stepping strategies to optimize adaptability and stability during gait.
- Hak, L., Houdijk, H., Steenbrink, F., Mert, A., van der Wuff, P., Beek, P. J., & van Dieën, J. H. How to prevent falling in an unstable environment? Gait adaptations in response to balance perturbations.
- de Boer, B. J., Peper, C. E., & Beek, P. J., Development of spatial and temporal bimanual coordination during childhood. Poster presented at the NCM 22nd Annual Meeting. Venice, Italy, April 23-29, 2012.
- de Boer, B. J., Peper, C. E., & Beek, P. J., Changes in functional interlimb interactions when learning a new bimanual coordination pattern with an internal or external focus of attention. Paper presented at the 12th European Workshop on Ecological Psychology. Madrid, Spain, June 28, 2012.
- de Boer, B. J., Peper, C. E., & Beek, P. J., Development of spatial and temporal bimanual coordination during childhood. Poster presented at the Motor Control Summer School IX. Tihany, Hungary, June 14-18, 2012.
- Beek, P. J., Individual optimization of generic techniques in elite sports. Frontiers in Sport and Exercise Science and Medicine. Expertise and its acquisition across domains. Brunel University, London, May 15, 2013.
- Beek, P. J. Current insights into motor learning and their applications. Invited keynote lecture at the 10th edition of Progress in Motor Control, Budapest, Hungary, July 22-25, 2015.

Organization of professional symposia and conferences (n = 12)

- Bingham, G. P., Kay, B., & Beek, P. J., *Dynamical models of perception-action systems*. Symposium organized at the Vth International Conference on Event Perception and Action, Oxford, Miami, OH, U.S.A., 1989.
- Beek, P. J., *On the origin of temporal order in movement coordination*. Symposium organized at the Faculty of Human Movement Sciences, Vrije Universiteit of Amsterdam, The Netherlands, 1989.
- Beek, P. J., Bootsma, R. J., van Wieringen, P. C. W., & Reijmers, M., *The VIth International Conference on Event Perception and Action*, Faculty of Human Movement Sciences, Vrije Universiteit of Amsterdam, The Netherlands, 1991.
- Beek, P. J., & Bootsma, R. J., *Ball skills*. Symposium organized at the VIth International Conference on Event Perception and Action, Faculty of Human Movement Sciences, Vrije Universiteit of Amsterdam, The Netherlands, 1991.
- Beek, P. J., & Guiard, Y., *Stability, (a)symmetry, and constraints in two-effector coordination*. Symposium organized at the Second European Conference on Ecological Psychology, University of Strathclyde, Glasgow, Scotland, 1992.
- Beek, P. J., Riccio, G., & Newell, K. M., *Affordances and task constraints in intentional systems*. Symposium organized at the VIIth International Conference on Event Perception and Action, University of British Columbia, Canada, 1993.
- Ingen Schenau, G. J. van, & Beek, P. J., *Coordination of multi-joint movement*. Symposium organized at the Second World Congress of Biomechanics, Amsterdam, The Netherlands, 1994.
- Brinker, B. P. L. M. den, Beek, P. J., Hollander, A. P., & Nieuwboer, R. T., *Zesde Workshop Computers in de Psychologie*. Amsterdam, The Netherlands, 1996.
- Beek, P. J., *Synergetics of perceptual-motor actions*. Workshop organized at the Faculty of Human Movement Sciences and the Institute for Fundamental and Clinical Human Movement Sciences, Amsterdam, The Netherlands, 1998.
- Peper, C. E., & Beek, P. J., *Timekeepers versus oscillators*. Symposium organized at the Tenth International Conference on Perception and Action, University of Edinburgh, Edinburgh, Scotland, 1999.
- Beek, P. J., *Rhythmic interlimb coordination: Dynamics, neural underpinnings and cognition*. Workshop organized at the Faculty of Human Movement Sciences and the Institute for Fundamental and Clinical Human Movement Sciences, Amsterdam, The Netherlands, 2000.

- Beek, P. J., *Control of interceptive actions*. Workshop organized at the Faculty of Human Movement Sciences and the Institute for Fundamental and Clinical Human Movement Sciences, Amsterdam, The Netherlands, 2005.
- Beek, P. J., *On the coordination dynamics of skill acquisition: A neglected dimension of expertise*. Symposium organized at the Eleventh European College of Sport Science, Lausanne, Switzerland, July 6-July 8, 2006.
- Beek, P. J., Schöllhorn, W., & Verwey, W., *Third European Workshop on Movement Science (EWOMS)*, Faculty of Human Movement Sciences, Vrije Universiteit Amsterdam, May 31-June 2, 2007.
- Beek, P.J., organization of plenary session "The choreography of movement and the brain", with presentations by Scott Kelso and Scott DeLahunta), *18th Annual Congress of the European College of Sport Science, ECSS Barcelona 2013, Unifying Sport Science*, The National Institute of Physical Education of Catalonia (INEFC), June 26-June 29, 2013.
- De Haan, A., van Mechelen, W., & Beek, P.J. (congress presidents), *19th Annual Congress of the European College of Sport Science, ECSS Amsterdam 2014, Sport Science Around the Canals*, Faculty of Human Movement Sciences, Vrije Universiteit Amsterdam, and Faculty of Medicine, VU Medical Center, July 2-July 5, 2014.
- Smeets, J. B. J., & Beek, P. J., *Progress in Motor Control XII 2019: Movement improvement*. Faculty of Behavioural and Movement Sciences, Vrije Universiteit Amsterdam and Amsterdam UMC, July 7-July 10, 2019.

Invited departmental colloquia

- Department of Psychology, University of Nijmegen, The Netherlands, 1987.
- Department of Psychology, University of Connecticut, Storrs, CT, U.S.A., 1987.
- Haskins Laboratories, New Haven, CT, U.S.A., 1987.
- Department of Psychology, University of Connecticut, Storrs, CT, U.S.A., 1988.
- Haskins Laboratories, New Haven, CT, U.S.A., 1988.
- Department of Psychology, Brown University, Providence, RI, U.S.A., 1988.
- Department for Electrical Engineering, Yale University, CT, U.S.A., 1989.
- Department of Psychology, University of Connecticut, Storrs, CT, U.S.A., 1989.
- Haskins Laboratories, New Haven, CT, U.S.A., 1989.
- Psychology Department, Wentworth College, University of York, U.K., 1990.
- Psychology Department, Indiana University, Bloomington, IN, U.S.A., 1990.
- Artificial Intelligence Laboratory, M.I.T., Cambridge, MA, U.S.A., 1990.
- Department of Psychology, University of Connecticut, Storrs, CT, U.S.A., 1990.
- 64e Nederlandse Astronomenconferentie (64th Dutch Conference for Astronomers and Astrophysicists), Lunteren, The Netherlands, 1991.
- Laboratory for Form Theory, Technical University Delft, The Netherlands, 1991.
- Department of Psychology, Tilburg University, The Netherlands, 1991.
- Department of Psychology, University of Connecticut, Storrs, CT, U.S.A., 1991.
- Department of Psychology, Brown University, Providence, RI, U.S.A., 1991.
- Department of Kinesiology, University of Illinois at Champaign-Urbana, IL, U.S.A., 1991.
- Institute for Theoretical Physics and Synergetics, University of Stuttgart, FR Germany, 1992.
- C.N.R.S., Marseille, France, 1992.
- Department of Psychology, Tulane University, New Orleans, LA, U.S.A., 1992.
- Department of Computational Linguistics, University of Amsterdam, Amsterdam, The Netherlands, 1993.
- Department of Physics and Astronomy, University of Utrecht, The Netherlands, 1994.
- Department of Psychology, N.I.C.I., University of Nijmegen, The Netherlands, 1995.
- Department of Physiology, Erasmus University Rotterdam, The Netherlands, 1996.
- Department of Medical Physics, Catholic University of Nijmegen, The Netherlands, 1996.
- Department of Physics and Astronomy, University of Utrecht, The Netherlands, 1997.
- Department of Measurement and Control Technology, Technical University Delft, The Netherlands, 1998.
- Department of Psychology, Ohio State University, Columbus, OH, U.S.A., 1998.
- Center for the Study of Complex Systems, Florida Atlantic University, Boca Raton, FL, U.S.A., 1998.
- Center for Sports and Exercise Science, John Moores University Liverpool, Liverpool, U.K., 2002.
- Penn State University, College Park, PA, U.S.A., 2002.
- Department of Psychology, Florida State University, Tallahassee, U.S.A., 2002.
- Department of Psychology, N.I.C.I., University of Nijmegen, The Netherlands, 2004.
- Max-Planck Institute, Munich, Germany, 2004.
- Department of Psychology, University of Connecticut, Storrs, U.S.A., 2004.
- Department of Cognitive and Linguistic Sciences, Brown University, Providence, U.S.A., 2004.
- Institute of Human Performance, University of Hong Kong, Hong Kong, 2005.
- Fujian Medical University (and affiliated hospitals in QuanZhou and Xiamen), FuZhou, China, 2005.
- UFR STAPS, Université Paul Sabatier, Toulouse, France, 2005.
- Cognition and Communication Research Centre, School of Psychology and Sport Science, Northumbria University, United Kingdom, 2008.

Invited teaching activities

- Educational program for sport physiotherapist organized by the N.I.S.G.Z., later N.I.S.G. (National Institute for Sports Health Care) (on a regular basis since 1985);
- Educational program for sport physiotherapist organized by the I.T.O.N. (Institute for Applied Neurological Research) (on a regular basis since 1985);
- Educational programs for additional training in rehabilitation and physiotherapy organized by the Netherlands Paramedical Institute (on a regular basis since 1985);
- Application courses and invited course-work for sport coaches organized by the K.N.L.T.B. (Royal Netherlands Lawn Tennis Association), the K.N.K.B.B. (Royal Netherlands "Korfbal" Association), the K.N.B.B. (Royal Netherlands Badminton Association), the K.N.A.U. (Royal Netherlands Athletics Association), the N.H.B. (Dutch Archery Association) (on a regular basis since 1985);
- "Dritten dvs-Sommerakademie" organized by K.-H. Leist, Willy Weyer Akademie, Führungs- und Verwaltungsakademie Berlin des Deutschen Sportbundes, Berlin, FR Germany, 1992.

Guest course (12 h.) entitled "Introduction to nonlinear dynamics with applications in the study of human movement", Université d'Aix-Marseille II, Centre de Recherche de l'U.F.R. S.T.A.P.S., France, 1993.

Workshop on the "physics of juggling" for physics teachers at high schools ("Werkgroep Natuurkunde Didactiek"), Noordwijkerhout, 1995.

Guest lecture entitled "De ecologische benadering van waarnemen en bewegen" [The ecological approach to perception and action] in the summer course "De hogeschool van de zintuigen" ["The academy of the senses"], Internationale School voor Wijsbegeerte, Leusden, 1999.

Supervised Bachelor's and Master's Research Internships

Wimmers, R. H. (1990). *Phase transitions in coordinated rhythmic movements: From phenomenology to mechanism*. Dr. P. J. Beek and dr. P. C. W. van Wieringen.

Jonker, M. P. J. (1994). *Handboek handbal-dynamica. [Handbook handball dynamics]*. Advisors: Prof.dr. W. J. Beek and dr. P. J. Beek.

Lamoth, C. J. C. (1994). *The movement deficits of stroke patients: A problem of coordination*. Advisors: Dr. M. Levin, dr. O. G. Meijer and dr. P. J. Beek.

Verschoor, F. (1996). The continuation paradigm. A synergetic approach. Advisors: Dr. P. J. Beek and prof.dr. J. A. S. Kelso.

van Weperen, R. J. and Prins, E. R. (1998). *The role of optical information in swinging*. Advisors: Prof.dr. P. J. Beek and drs. A. A. Post.

Teunissen, R. A. G. (1998). *Segmental analysis of postural sway in two stance positions*. Advisors: Prof.dr. P. J. Beek and prof.dr. M. T. Turvey.

Dessing, J. C. (2000). *The role of proprioceptive information in the dynamics of bimanual coordination*. Dr. C. E. Peper and prof.dr. P. J. Beek.

Van Berlicum, M., van Eck, M., Roesscher, I., and Wedding, T. (2000). *Mechanische eigenschappen die de haptische perceptie van de lengte van stokken bepalen [Mechanical properties determining the haptic perception of rod length]*. Dr. I. Kingma and prof.dr. P. J. Beek.

Tromp, P. (2002). *A comparison of discrete and cyclical movements: kinematics and control*. Advisors: Prof.dr. P. J. Beek and dr. C. E. Peper.

Van Ulzen, N. R. and Waaijman, R. (2003). *Effect of altered limb dynamics on the adaptive control of rapid right and left arm aiming movements*. Advisors: Prof.dr. G. A. Anson and prof.dr. P. J. Beek.

Albers, E. (2004). Grasping real and virtual balls: Differences in timing. Advisors: Prof.dr. P. J. Beek, drs. J. Dessing and dr. E. Otten.

Albers, E. and Bergmann, J. (2004). *Exploring the characteristics of running: gait parameters, mechanical work and respiration*. Advisors: Dr. C. E. Peper, prof.dr. P. J. Beek and dr. J. J. de Koning.

Roerdink, M. (2004). The role of feedback in rhythmic visuomotor tracking: stability and visual search patterns. Advisors: Prof.dr. P. J. Beek and dr. C. E. Peper.

Muusse, F. C. (2005). *One-legged stance in older adults: improving balance through noise-enhanced sensorimotor function*. Advisors: Prof.dr. J. J. Collins and prof.dr. P. J. Beek.

Bruijn, S. M. and Muusse, F. C. (2005). *Postural analysis of patients with neuritis vestibularis: Do structural parameters add anything?* Dr. A. Greven and prof.dr. P. J. Beek.

Ophoff, E. (2006). Anchoring in unimanual visuo-motor tracking depends independently on gaze direction and musculoskeletal properties. Advisors: Prof.dr. P. J. Beek, dr. C. E. Peper and drs. M. Roerdink.

Boonstra, T. A. (2006). *Variability and stability during practice of ball bouncing*. Prof.dr. D. Sternad and prof.dr. P. J. Beek.

Paulis, W. D. (2006). *Active balance control in healthy young adults, elderly and stroke patients*. Advisors: Prof.dr. P. J. Beek and drs. M. Roerdink.

van Swigchem, R. (2006). The neuromuscular control of conscious fall techniques during a fall. Advisors: Dr. V. Weerdesteyn, drs. B. Groen, prof.dr. J. Duysens and prof.dr. P. J. Beek.

van Bergen, E. and van Swieten, L. (2006). *Grasp selection in children with and without developmental coordination disorder*. Advisors: Dr. M. Mon-Williams, prof.dr. G. Savelsbergh and prof.dr. P. J. Beek.

Vardy, A. (2007). *Influences of bimanual activity on mirror movements*. Advisors: Dr. A. Daffertshofer, dr. A. Ridderikhoff and prof.dr. P. J. Beek.

de Boer, B. and de Kruyff, J. (2007). *The influence of social competence on the coordination of rhythmic movements between people. [De invloed van sociale competentie op de coördinatie van ritmische bewegingen tussen personen.]* Advisors: drs. H. de Poel, dr. J. Stins and dr. C. E. Peper.

Oostwoud Wijdenes, L. (2007). *Examining online adjustments and gaze-centered coding in the control of catching*. Dr. J. C. Dessing and prof.dr. P. J. Beek.

Supervised Bachelor's and Master's Theses

Klatt, E. F. (1994). De timing van korte en lange interresponse intervallen.

Reijnen, J. S. (1995). *Coordination dynamics shaped by biomechanics*. Advisors: Drs. C. E. Peper and dr. P. J. Beek.

Karskens, L. (1997). Anticipatie in de sport. Het leren oppikken van informatie.

Teunissen, R. A. G. (1998). *1/f noise time series analysis: Variability in physiological observables*. Advisor: Prof.dr. P. J. Beek.

Tromp, P. (1999). The dynamical systems approach to skill acquisition: contributions and shortcomings. Advisors: Prof.dr. P. J. Beek and dr. C. E. Peper.

Caljouw, S. R. (2000). *Finger movements: Structure and control*. Advisors: Prof.dr. P. J. Beek and dr. C. E. Peper.

Dessing, J. C. (2000). *Task-specific strategies for interceptive actions*. Advisors: Prof.dr. P. J. Beek and dr. C. E. Peper.

Roerdink, M. (2003). Applications of Mean Field Theory in Human Movement Sciences. Dr. T. Frank and prof. dr. P. J. Beek.

Elschot, C. F. (2003). Automatization and deautomatization of perceptual-motor skills. Dr. R. R. D. Oudejans and prof. dr. P. J. Beek.

Van Ulzen, N. R. (2003). *Mechanisms and effects of cueing in Parkinson's disease. A literature review*. Prof.dr. P. J. Beek and dr. G. Kwakkel.

Hoorstra, R. W. (2005). *Perception of heading in human walking*. Advisor: Prof.dr. P. J. Beek.

Boonstra, T. (2006). *Passive dynamic walking. A useful approach to understand human walking?* Advisor: Prof.dr. P. J. Beek.

Braam, J. (2007). *Sensory intergration in chronic whiplash [Sensorische integratie bij een chronische whiplash]*. Advisor: Prof.dr. P. J. Beek.

Vardy, A. N. (2007). *Using nonlinear dynamics and the brain: Are we answering the right questions*. Advisors: Dr. A. Daffertshofer and prof. dr. P. J. Beek.

Musse, F. C. (2007). *Asymmetry in rhythmic bimanual movements*. Dr. C. E. Peper and prof.dr. P. J. Beek.

Evers, L.

Supervised Short Literature Reviews

Ainsworth, E. (2007). *Do dynamical parameters have added value in the study of postural sway?* Advisor: Prof.dr. P. J. Beek.

Oostwoud Wijdenes, L. (2007). *Mirror neurons in the human brain. A review of their location, operation and implications*. Advisor: Prof.dr. P. J. Beek.
Tersteeg, L. (2007). *Walking in a virtual environment*. Advisor: Prof.dr. P. J. Beek.
Wanders, W. (2009). *Is implicit learning more useful in stressful situations than explicit learning?* Advisor: Prof.dr. P. J. Beek.

Media appearances and coverage

Newspapers

NRC Handelsblad, 5 februari 2011, Wetenschapsbijlage: "Winnen met bokkensprongen"

Television

Wedden dat ik het kan, 22 October 2016, SBS6, Dutch television.

Radio

Studio040, 21 januari 2018, interview over De Dag van de Zwemwetenschap te Eindhoven op 20 januari 2018.