

Program EWEPI4 6-8 July 2016

All oral presentations will be held in the large lecture hall of the conference hotel (Hampshire Hotel Plaze, Groningen), which is located on the first floor. The poster boards are placed in the hallway outside the lecture hall and will be up for the whole conference.

Tuesday 5 July

17.00 – 20:00 Registration desk open

Dinner at own expenses

Wednesday 6 July

8.00 – 12:00 Registration desk open

9.00 – 9.10 Opening: Koen Lemmink (*Director of the Center for Human Movement Sciences, University Medical Center Groningen, University of Groningen*)

9.10 – 10.30 Symposium: Moving toward a psychology of values: Making good on Gibson's intention (Bert Hodges)

Bert Hodges: Values in action and cognition: Heterarchical shifts in spacing, timing, and coordination

Joanna Rączaszek-Leonardi: Value-based constraints on the development of coaction

Julien Kiverstein: An ecological-enactive account of value-perception

Endre Kadar & Alan Costall: The place of facts in a world of value

10.30 – 11.00 Coffee break

11.00 – 12.15 Open topics (*Chair: Ruud van der Weel*)

11.00 – 11.15 Pedro Teques, David Catela, & Duarte Araújo: Gibsonian resonance as property of the animal-environment system: An omitted story in psychology

11.15 – 11.30 Fred Keijzer: Origins of the animal sensorimotor organization

11.30 – 11.45 Rita de Oliveira & Milou Brand: A systematic review of perceptual-motor recalibration

11.45 – 12.00 Kerry Marsh: Social Ecological Psychology moving forward

12.00 – 12.15 Simone Caljouw & Claudine Lamothe: Explicit knowledge of a sequence has no added value for postural sequence learning

12.15 – 13.15 Lunch break

13.15 – 14.15 Keynote (*Chair: Raoul Bongers*)

Michael Turvey: Action and perception at the level of synergies

14.15 – 15.15 Poster session

15.15 – 15.45 Coffee Break

15.45 - 17.00 Symposium: Dynamics of Movement Disorders: A tribute to Robert Wagenaar (Richard van Emmerik)

Richard van Emmerik: Robert Wagenaar's contributions to dynamics of movement disorders

Claudine Lamoth: Gait coordination during gait in low back pain, stroke and aging adults

Erwin van Wegen: Visual and auditory information to improve gait in Parkinson's disease

Gert Kwakkel: Understanding functional recovery early post stroke

17.00 – 17.15 Break

17.15 - 18.00 Open topics (*Chair: Melvyn Roerdink*)

17.15 – 17.30 Andrew Wilson, Qin Zhu, Ian Stanistreet, Larry Barham, & Geoffrey Bingham: Task dynamics and the affordances of prehistoric spheroids for throwing

17.30 – 17.45 Gert-Jan Pepping, Paul Wagtho, Lisette Bakker, Damian Farrow, & Frank Zaal: The Influence of opponent positioning on tennis serve decisions

17.45 – 18.00 Niek Benerink, Frank Zaal, Remy Casanova, Nathalie Bonnardel, & Reinoud Bootsma: Playing 'PONG' together: Emergent coordination in a doubles interception task

19.00 BBQ

Thursday 7 July

9.00 – 10.20 Symposium: Developmental Ecological Psychology in Retrospect and Prospect (Catherine Read & Agnes Szokolszky)

Nancy Rader: Uniting Jimmy and Jackie: Developmental Ecological Psychology
Audrey van der Meer & Ruud van der Weel: Developmental Neuroscience from an Ecological perspective

Agnes Szokolszky & Catherine Read: Developmental Ecological Psychology: Affinities with Dynamic Systems, Phenomenology, and Morphogenesis

Dankert Vedeler: Ecological psychology and the time dimension of human development

10.20 – 10.50 Coffee break

10.50 – 12.20 Open topics (*Chair: Claudine Lamoth*)

10.50 – 11.05 Claudia Carello, Seokhun Kim, & Michael Turvey: Using Gibson's optical tunnel to investigate the size-distance invariance hypothesis

11.05 – 11.20 David Gaul, Arimin Mat, Donal O'Shea, & Johann Issartel: Altered visual motor coordination in obese adults

11.20 – 11.35 Matthew Rodger, Will Young, Caroline Whyatt, Alan Cummins, & Cathy Craig: Catching a ball using your ears: Auditory interception in sighted and visually-impaired people

11.35 – 11.50 Inês Santos & Leonor Moniz-Pereira: Contribution of foveal vision in guidance obstacle avoidance

11.50 – 12.05 Dees Postma & Frank Zaal: Affordance based control: Identifying the factors underlying the catchability of fly balls

12.05 – 12.20 Rémy Casanova, Simon Ledouit, Frank Zaal, & Reinoud Bootsma: Information-based control of direction-constrained locomotor interception: facts and figures

12.20 – 13.30 Lunch break

13.30 – 14.30 Keynote (*Chair: Frank Zaal*)

Reinoud Bootsma, Rémy Casanova, Gwenaëlle Sessa, & Frank Zaal: Information-based control of interception: from recurrent patterns of results to general principles

14.30 – 15.30 Poster session + Coffee Break

15.30 – 16.30 Symposium: Interpersonal coordination dynamics I: 'leader-follower' coupling (Harjo de Poel, Lieke Peper, Rens Meerhoff, & Richard C. Schmidt)

Lieke Peper & Elma Ouwehand: Does interpersonal movement synchronization differ from synchronization with a moving object?

Rens Meerhoff, Harjo de Poel, & Chris, Button: Walking with avatars: Spatio-temporal coordination in following a virtual leader

Richard Schmidt: Breaking symmetry in conversation

Harjo de Poel: Directionality, (an)isotropy, and (ant)agonisticity in interpersonal coupling

16.30 – 16.45 Break

16.45 – 17.45 Open topics (*Chair: Gert-Jan Pepping*)

16.45 – 17.00 Jonas Linderoth: An ecological approach to the appeal of video games

17.00 – 17.15 Maria Eunice Gonzalez: Ecological information and technological affordances: a complementary approach?

17.15 – 17.30 Kenneth Vilhelmsen, Ruud van der Weel, & Audrey van der Meer: A high-density study of infants' perception of speed and direction in response to optic flow stimuli

17.30 – 17.45 Ekaterina Zotcheva & Audrey van der Meer: Dorsal stream vulnerability in preterm infants: A longitudinal EEG study of visual motion perception

19.00 Dinner

20.30 Optional bike tour

Friday 8 July

9.00 – 10.00 Open topics (*Chair: Lieke Peper*)

9.00 – 9.15 Richard Van Emmerik, Jongil Lim, Christopher Palmer, Michael Busa, Avelino Amado, Luis Rosado, Scott Ducharme, & Darnell Simon: Small helmet and large torso loads reduce situational awareness during postural transitions

9.15 – 9.30 Fred Hasselman: Multifractal scaling of the speech signal: The ultimate embodied invariant for speech perception?

9.30 – 9.45 Hester Knol, Jean-Christophe Sarrazin, Andrea Spiegler; Raoul Huys, & Viktor Jirsa: Ebbinghaus figures that deceive the eye do not necessarily deceive the hand.

9.45 – 10.00 Inge Tuitert, Leonora Mouton, Reinoud Bootsma, Egbert Otten, Marina Schoemaker, & Raoul Bongers: Does flexibility in manual pointing movements increase after practice?

10.00 – 10.20 Coffee break

10.20 – 11.20 Open topics (*Chair: Audrey van der Meer*)

10.20 – 10.35 Mathieu Gueugnon, Robin Salesse, Benoît Bardy, & Ludovic Marin: Effect of improvisation on interpersonal and intra-personal behavior

10.35 – 10.50 Paula Fitzpatrick, Teresa Mitchell, Jean Frazier, & Richard Schmidt: The neural basis of social synchronization: Implications for understanding social competence

10.50 – 11.05 Lisette de Jonge-Hoekstra, Steffie van der Steen, Paul van Geert, & Ralf Cox: Asymmetric dynamic attunement of speech and gestures as children learn: competing synergies?

11.05 – 11.20 Laura Golenia, Marina Schoemaker, Leonora Mouton, & Raoul Bongers: Exploratory motor behavior during development

11.20 – 11.40 Coffee break

11.40 – 12.40 Symposium: Ecological psychology as a basis for the study of sport expertise (Matt Dicks)

Ana Paulo, Frank Zaal, Ludovic Seifert, Sofia Fonseca, & Duarte Araújo: Predicting volleyball serve-reception at group level

Matt Dicks & John van der Kamp: Action scaling during visual anticipation
Dominic Orth, Keith Davids, Adam Schmidt, & Ludovic Seifert: Skilled affordance perception in indoor climbing

Brice Guignard, Annie Rouard, Didier Chollet, & Ludovic Seifert: The effect of fluid flow manipulation on upper limb coordination in swimming

12.40 – 13.40 Lunch break

13.40 – 15.00 Symposium: Philosophical considerations (Rob Withagen)

Matthieu de Wit: Ask what's inside your head: applying ecological concepts to the study of the brain

Ludger van Dijk: Laying down a path in talking

Jelle Bruineberg & Erik Rietveld: Ecological information for “higher cognition”

Rob Withagen, Harjo de Poel, & Duarte Araújo: Agency and inviting affordances

15.00 – 16.00 Poster session + Coffee

16.00 – 17.00 Symposium: Interpersonal coordination dynamics II: interactions involving physical contact (Harjo de Poel, Laura S Cuijpers, Melvyn Roerdink, & Leif Johanssen)

Harjo de Poel: Introduction

Laura Cuijpers, Frank Zaal, Ruud den Hartigh, Koen Lemmink, Alexander, Hoogerheide, Alessio Murgia, Pedro Passos, & Harjo de Poel: Mechanical coupling in crew rowing

Melvyn Roerdink, Niek van Ulzen, Maaïke Niekel, Isolde van den Eijkel, & Harjo de Poel: When two become one: spontaneous pattern formation in side-by-side and hand-in-hand walking

Leif Johanssen, Raymond Reynolds, Satoshi Endo, & Alan Wing: Light haptic interactions between two individuals: a tool to improve postural control during standing and walking?

17.00 – 17.15 Closing

18.30 Departure with boat from hotel to dinner restaurant

22.30 Departure from restaurant to return to hotel with busses

Poster Presentations

- 1) Alexandre Coste, Robin Salesse, Mathieu Gueugnon, Ludovic Marin, & Benoît Bardy: Rhythmic auditory stimulation promotes postural coordination stability
- 2) Frank Blikslager, Harjo de Poel, & Claudine Lamoth: Does coordinative stability equate with economy/efficiency?
- 3) Harjo de Poel, Arabella van de Laarschot, & Olaf Noorbergen: (Ant-)agonistic coupling dynamics in singles tennis
- 4) Ralf Cox: Complexity matching in a coordinative Wiimote game
- 5) Ruud den Hartigh & Ralf Cox: Fractal Scaling and Complexity Matching in Ergometer Rowing
- 6) Saskia Steidl & Leif Johannsen: Interpersonal interactions for haptic guidance during maximum forward reach
- 7) Simon de Vries, Raoul Huys, & Pier Zanone: Eye-hand coupling in a repetitive Fitts' task
- 8) Tim Valk, Leonora Mouton, & Raoul Bongers: Joint-angle coordination patterns stabilize body-plus-tool system in pointing movements with rods
- 9) Melvyn Roerdink: Movement-rate transitions in half-cycle paced auditory motor synchronization
- 10) Zhong Zhao, Robin Salesse, Ludovic Marin, Mathieu Gueugnon, & Benoît Bardy: Anger increases interpersonal anti-phase coordination accuracy
- 11) Raoul Bongers, Inge Tuitert, & Laura Golenia: Exploration at the end-effector and in joint angles when learning to use a complex tool
- 12) Jorge Ibáñez-Gijón: The fingerprint of expertise across execution, task, and result spaces in basketball free throw

- 13) Gert-Jan Pepping, Steven van Andel, & Michael Cole: Exploration for Perceptual-Motor Calibration with Implications for Successful Motor Control
- 14) Gwenaëlle Sessa, Rémy Casanova, & Reinoud Bootsma: Do we use a constant bearing angle to intercept a moving target?
- 15) Endre Kadar: Problems in the use of horizon ratio in Hiroshige's works
- 16) Daniëlle Bouman, John Stins, & Peter Beek: Effect of emotion on backward gait initiation
- 17) David Jacobs, Alfredo Higuera-Herbada, Jorge Ibáñez-Gijón, & David Travieso: Information and dimensionality reduction

- 18) Harald Ewolds, Harjo de Poel, & Gert-Jan Pepping: Decisions shaped through social affordances in a basketball passing task
- 19) Karlijn Sporrel, Simone Caljouw, & Rob Withagen: Gap-crossing behavior in standardized and nonstandardized jumping stone configurations
- 20) Mariana Broens: Does ecological information afford empathy? Social affordances and moral conduct
- 21) Milou Brand & Rita de Oliveira: The influence of ageing on recalibration of action boundaries

- 22) Dario Menicagli, Marcello Costantini, Corrado Sinigaglia, Pietro Pietrini, & Emiliano Ricciardi: A more abstract representation of action space
- 23) Carmen Ludwig & Sarah Diefenbach: Sustainable purchase behaviour: Consistency vs. licensing effects in consecutive purchase decisions

- 24) John Stins, Fernando Marmolejo-Ramos, Femke Hulzinga, Eric Wenker, & Rouwen Cañal-Bruland: Embodied language effects in postural sway
- 25) Annemiek Barsingerhorn, Nienke Boonstra, & Jeroen Goossens: The development and validation of a stereoscopic eye tracker
- 26) Anniek Heerschop, Corry van der Sluis, & Raoul Bongers: Tests in myoelectric prosthesis training are task specific