

16th International Conference on Perception and Action

Daily Program

July 6 – 11 2011

Universidade Federal de Minas Gerais

Organizing Committee

Paula L. Silva, Juliana Ocarino, Marisa Mancini, Sérgio Fonseca,
Rodolfo Benda, Herbert Ugrinowitsch, Thales de Souza

Sponsors



Daily Program

Wednesday, July 6

17:30 – 19:30 Conference Registration
Hotel Estalagem das Minas Gerais, Ouro Preto, Brazil

18:30 – 22:30 Opening reception
Hotel Estalagem das Minas Gerais, Ouro Preto, Brazil

Thursday, July 7

08:00 – 08:45 Conference Registration

08:45 – 09:00 Opening Remarks – ICPA 16 organizers

09:00 – 10:20 Symposium 1: Tensegrity: a functional architecture for haptic perception
Organizer: Sérgio Fonseca

Tensegrity architecture: from cell to musculo-skeletal system
Sérgio Fonseca

Evidence of tensegrity properties in the musculoskeletal system: Pre-stress and tensional continuity
Thales de Souza

Tensegrity perceptual hypothesis
Michael T. Turvey

10:20 – 10:50 Break

10:50 – 12:20 Open Forum A

Multifractal heterogeneity in exploration for whole-part selective perception
Zsolt palatinus, Damian G. Stephen, Yoshi Kobayashi, Jeffrey-Kinsella Shaw, Michael T. Turvey

Haptic Perception of the Affordances of Another Person
Hiroyuki Mishima, Mamoru Sawada, & Hiroshi Inou

Illusions are affordances: a comment on Müller-Lyer's phenomenon perceptions through tactile sense and vision
Marcelo Santos, John M. Kennedy

What You are Doing Influences What You See: The Influence of Applied Torque on Visual Heaviness Perception
Laura Bachus, Kevin Shockley & Michael A. Riley

12:20 – 13:30 LUNCH

13:30 – 15:00 Poster Session I

15:00 – 16:30 Open Forum B

In Critical Situations, Affordances Still Influence Speed Perception
Jessica Witt, Mila Sugovic

Running for Catchable and Uncatchable Fly Balls
Frank Zaai, Harjo J. de Poel, Joanne Smith, & Gert-Jan Pepping

Expert Affordance Perception and Kinematic Information
Julie Weast, Ashley Walton, Kevin Shockley, and Michael A. Riley

Affordance and abduction: a possible convergence of Gibson and Peirce
Katia B. C. Pessoa, Luciane Rodrigues, Gilberto César L. Rodrigues

16:30 – 17:00 Break

17:00 – 18:20 Symposium 2: Learning in action

Organizer: Claire Michaels

Introductory remarks
Claire Michaels & David Jacobs

Competing strategies for partial length perception
Claire Michaels & Zsolt Palatinus

Fractality of Exploration Predicts Learning and Transfer in Dynamic Touch
Damian G. Stephen¹ & Alen Hajnal²

Learning of Visually-Guided Action: An Information-Space Analysis of Pole Balancing
Daniela V. Vaz^{1,2}, David Jacobs³, & Claire Michaels²

Friday, July 8

09:00 – 10:20 Symposium 3: Understanding the Role of the Action System in Constraining Perception
Organizer: Eliah White

Introductory remarks
Michael Riley

Multimodally Specified Effort and Distance Perception
Eliah White, Kevin Shockley, & Michael A. Riley

Getting in Touch With Your Inner Gibson: Reconciling Action-Specific and Ecological Approaches
Jessica Witt & Michael Riley

10:20 – 10:50 Break

10:50 – 12:20 Open Forum C

Avoiding Obstacles: Strategy Changes as a Result of Visual Field Limitation
Sander E.M. Jansen, Alexander Toet, Peter J. Werkhoven

Function of Tau in Perception and Action of the Automobile Driver in Car-Following Situations
Takayuki Kondoh, Nobuhiro Furuyama, Toshiya Hirose, Tochi Sawada, Yoshihiro Miyake

Affordance-based control of overtaking behaviour
Antoine Morice, Numa Basilio, Gabriel J. Diaz, Brett B.R. Fajen, Reinoud J. Bootsma, and Gilles Montagne

Effect of Air-flow Perception on Reaching Movements
Kiyohide Ito, Hiroshi Inou, Mamoru Sawada, and Hiroyuki Mishima

12:20 – 13:30 LUNCH

13:30 – 15:00 Poster Session II

15:00 – 16:30 Open Forum D

Longitudinal Development of Looming: How optical variables may become information

Ruud van der Weel and Audrey van der Meer

Learning to Observe and Create Fractal Events

Julia Blau and Claudia Carello

Visual control of racket motion in rhythmic ball bouncing

Isabelle A. Siegler, C. Bazile, and William H. Warren

The Body as Odometer

Steven Harrison

16:30 – 17:00 Break

17:00 – 18:20 Symposium 4: Perceiving Affordances for Others in Social Systems

Organizers: Pedro Passos e João Barreiros

Introductory remarks

Pedro Passos & João Barreiros

Perceiving Affordances from the others in Team Sports – a 2v1 analysis in Rugby Union

Pedro Passos & Orlando Fernandes

Shaping Decisions in Social Systems: Affordances and Social, Neural, and Physiological Constraints on Action.

Gert-Jan Pepping & Harjo de Poel

Influent factors in the perception of affordances for children

Rita Cordovil & João Barreiros

Saturday, July 9

09:00 – 10:20 Symposium 5: (Still) Growing Up: What should we be a realist about in the cognitive and behavioural sciences?
Organizers: Fred Hasselman¹, Ralf F.A. Cox¹, Michael P. Seevinck²

Introductory remarks

Fred Hasselman¹, Ralf F.A. Cox¹, Michael P. Seevinck²

Theory of agency for all organisms: What kind of science does it require?

Michael T. Turvey

Caught in the Undertow: There is structure beneath the ontic stream

Fred Hasselman, M.P. Seevinck, Ralf F.A. Cox

10:20 – 10:50 Break

10:50 – 12:20 Open Forum E

Reflections on Ecological Psychology from Arakawa's Bioscleave House

William Mace

The Problems of Extended Mind and Ecological Psychology

Tetsuya Kono

Habit as a binary relation between antecedent and consequent: could the antecedent be understood as a social affordance?

Ramon Andrade and Itala M. Loffredo D'Ottaviano

How Plato is used to brainwash helpless toddlers

Thomas A. Stoffregen

12:20 – 13:30 LUNCH

13:30 – 15:00 Poster Session II

15:00 – 16:30 Open Forum F

Affordances in the context of new information technology

M.E.Q. Gonzalez, J.A. Quilici-Gonzalez, M.C. Broens, G. Kobayashi

Acquisition and Transfer of Skills using Ecologically-oriented Multimodal Human-Machine Interfaces

Benoit Bardy

Surprising effects of bidirectional coupling between humans and humanoids in the VPI paradigm

Scott Kelso

Speaker cancellation (one more talk TBA)

16:30 – 17:00 Break

17:00 – 18:20 Symposium 6: Communicative Coordination and Cooperation in Music and Speech

Organizer: Hani Camille Yehia

Introductory remarks

Hani Camille Yehia

Evidence for Self-Other Effects and Structure-Related Attentional Mechanisms in the Primo/Secondo Performances of Clarinetists

Rafael Laboissière, Davi Alves Mota, Thiago de Almeida Magalhães Campolina, Hani Camille Yehia, Maurício Alves Loureiro

Speech Sounds as Dynamical Patterns: Speaker-Hearer Coordination

Thais Silva, Thaís Cristófaró Silva, Hani Camille Yehia, Ricardo Napoleão, Maria Cantoni, Gustavo Almeida

Using Instantaneous Correlation to Quantify Intra and Inter Subject Coordination During Communicative Behavior

Adriano Vilela Barbosa, Rose-Marie Déchaine, Martin Oberg, Philip E. Rubin, Hani Camille Yehia and Eric Vatikiotis-Bateson

Sunday, July 10

09:00 – 10:20 Symposium 7: Social coordination's breakdown in pathology
Organizers: Ludovic Marin and Richard Schmidt

Introductory remarks

Ludovic Marin and Richard C. Schmidt

Overview on Social Coordination and Connection, With Implications for Special Populations

Kerry L. Marsh, Anjana N. Bhat

Interpersonal Coordination in Schizophrenia

Manuel Varlet, Ludovic Marin, Stephane Raffard, Richard C. Schmidt, Delphine Capdevielle, Jean-Philippe Boulenger, Jonathan Del-Monte, Benoit G. Bardy

Exploring the Time-Dependent Unfolding of Social Coordination in Children with Autism

Paula Fitzpatrick, Rachel Diorio, Michael J. Richardson, R. C. Schmidt

10:20 – 10:50 Break

10:50 – 12:20 Open Forum G

Vicarious action: the case of a Japanese calligrapher with quadriplegia

Tetsushi Nonaka

Task demand and supra-postural responses in typical and atypical

Thomas Stoffregan, Michael G. Wade, Fu-Chen Chen, and Chia-Liang Tsai

Effects of eye movements and aging on postural control

Stefane A. Aguiar & Sérgio Tosi

Intercepting a moving traffic gap: perception-coupling action during intersection crossing

Reinoud J. Bootsma, Nicolas Louveton, Catherine Berthelon, and Gilles Montagne

12:20 – 13:30 LUNCH

13:30 – 13:45 Eric Charles' Text Book Project

13:45 – 14:00 Conference Photo

14:00 – 15:00 ISEP Business Meeting

Coordinator: William Mace

15:00 – 16:30 Open Forum H

Effect of Frequency and Visual Stimuli on Rhythmic Coordination

Alan Armstrong, J. Issartel, M. Varlet, L. Marin

Uni-manual rhythmic behavior across a range of frequencies analyzed using the canonical-dissipative method

Dobromir Dotov, Till Frank

Mode Analyses on the Kinematical Structure of Common Motion Patterns

Sadahiro Senda, Nanase Takata, Kazuki Nakai and Katsuyoshi Tsujita

Dynamics of Movement Interference

Michael J. Richardson & Richard Schmidt

16:30 – 17:00 Break

**17:00 – 18:20 Symposium 8: A Natural-Physical Approach to Perception
Action-Cognition**

Organizer: Claudia Carello

Introductory remarks

Claudia Carello

Perception-Action Cycles: A direct and deep connection with Thermodynamic Principles

Michael T. Turvey

Plant Intelligence

Claudia Carello

On the Behavior of Beads and Cells

James A. Dixon and Damian G. Stephen