

ICPA XV Preliminary Program

Sunday, July 12

17:30 – 19:30 Conference Registration
Frederick R. Weisman Art Museum, Minneapolis

18:30 – 20:30 Opening reception
Frederick R. Weisman Art Museum, Minneapolis

Monday, July 13

08:00 – 08:30 Conference Registration

08:30 – 08:45 Opening Remarks – Michael G. Wade and Thomas A. Stoffregen

08:45 – 10:15 Symposium on affordances: Anniversaries for reflection
Organizer: William M. Mace

25 years later

William H. Warren

Social affordances: Research, reality, and myth

Michael J. Richardson and Kerry L. Marsh

Nudges and affordances: Can ecological psychology learn from behavioral economics?

Alex Kirlik

Affordance: Foundation of a psychology for all animals

Michael T. Turvey

10:15 – 10:30 Break

10:30 – 12:00 Open Forum A

How can we conceptualize social affordances?

Tetsuya Kono

Boltzmann's active-passive principle applied to affordances' degrees of freedom problem

Jeffrey Kinsella-Shaw and Robert Shaw

Affordances in complex action: Foreseeing a potential flake in a stone

Tetsushi Nonaka, Blandine Bril, and Robert Rein

Using the affordance of gap-crossing to characterize functional mobility after lower limb injury

Christopher K. Rhea, Jeffery J. Hutchison, Robert M. Shalvoy, Roy K. Aaron, and William H. Warren

12:00 – 13:30 LUNCH

13:30 – 15:00 Open Forum B

Dynamics of team coordination and adaptive performance

Jamie C. Gorman, Eric E. Hessler, Nancy J. Cooke, and Polemnia G. Amazeen

Dynamic postural coordination measures differentiate ACL reconstructed and healthy athletes

Adam W. Kiefer, Kevin R. Ford, Mark V. Paterno, Laura C. Schmitt, Gregory D. Myer, Michael A. Riley, Kevin Shockley, and Timothy E. Hewett

The (re)learning of preferred postural patterns in hemiplegic patients
Deborah Varoqui, Jérôme Froger, Jacques-Yvon Pélissier, Benoît G. Bardy
Dynamics of valenced events
Robert W. Isenhower, T. D. Frank, Bruce A. Kay, and Claudia Carello

15:00 – 15:30 Break

15:30 – 17:00 Symposium: Task constraints on affordance perception
Organizers: Julie A. Weast and Stacy Lopresti-Goodman

How an object is grasped constrains whether multiple affordances for an object will be noticed

Lin Ye, Wilson Cardwel, Milena Petrovic, and Leonard S. Mark

The influence of affordance-relevant experience on affordance perception

Julie A. Weast, Kenneth Wright, Kevin Shockley, and Michael A. Riley

How social interaction constrains the affordances of joint action

Tehran J. Davis, Kimberly Capehart, Justin Fine, Michael A. Riley, and Kevin Shockley

Affordances, effectivities, coordinative structures: A graph- and task-dynamic framework

Elliot Saltzman and Ken Holt

17:00 – 18:30 Poster session I

Tuesday, July 14

08:00 – 08:30 Conference Registration

08:30 – 10:00 Open Forum C

The influence of surface elevation on postural dynamics during judgments of step-down-ability

Jeffrey M Kinsella-Shaw, Steven J Harrison, and M. T. Turvey

An ecological model of redintegration

Stephen E. Robbins

Dynamics of postural control development in ballet dancers

Adam W. Kiefer, Julie A. Weast, Sarah Cummins-Sebree, Michael A. Riley, Kevin Shockley, & Jacqui G. Haas

The effect of displaced visual feedback on temporal coupling in a loop drawing task

Jane Redfield Yank, Arend W. A. Van Gemmert, David Bailey, Alain Zuur, & Jon McLachlan

10:00 – 10:30 Break

10:30 – 12:00 Symposium: Perception-action abilities in atypical populations

Organizer: Michael G. Wade

Diagnostic criteria across the atypical developmental spectrum

Michael G. Wade

Do clumsy children recognize the limits of their action capabilities?

Daniel C. Johnson

The influence of supra-postural task on postural sway of children with and without autism spectrum disorders

Chih-hui Chang, Chien-Yu Pan, Michael, G. Wade, Thomas, A. Stoffregen

Movement stereotypy and variability in developmental disabilities

Karl M. Newell

12:00 – 13:30 LUNCH

13:30 – 15:00 Open Forum D

Locomotor and postural contributions to affordance perception

Yawen Yu and Thomas A. Stoffregen

Posture supported by a well-adjusted seating system creates virtuous perception-action cycles

Hisako Nomura, Ken'ichi Muraguchi, Kunihiko Chiba, Hiroshi Inou, Mitsuru Fujita, Mamoru Sawada, and Hiroyuki Mishima

Follow the leader: Extending the locomotor dynamics model to crowd behavior

Christopher K. Rhea, Jonathan A. Cohen, and William H. Warren

Examining psychological constraints in action planning
Priscila Caçola and Carl Gabbard

15:00 – 15:30 Break

15:30 – 17:00 Symposium: Learning and calibration
Organizer: Claire F. Michaels

Optic flow calibrates walking direction without transfer to throwing and kicking
Hugo Bruggeman and William H. Warren

Do actors pick up information on the fly to perceive action-scaled affordances?
Brett R. Fajen, Jonathan S. Matthis, Christopher M. Cramer

Restricting exploration affects learning and attunement in dynamic touch
Ryan Arzamarski, Zsolt Palatinus, & Claire F. Michaels

The information space for partial length perception in dynamic touch
Claire F. Michaels and Robert Isenhower

17:00 – 17:30 Conference photo (main entrance to the Conference Center)

17:30 – 18:00 ISEP Business Meeting

Wednesday, July 15

08:00 – 08:30 Conference Registration

08:30 – 10:00 Symposium: New perspectives on linguistic actions: Variability, repetition, and social dynamics

Organizers: Bert Hodges and Betty Tuller

Speaking and acting in the pink

Guy Van Orden

Linguistic typology is not (necessarily) mind reading: Some limits on the interpretation of iterated learning

Michael Kalish

How is phonology related to an alphabet?

Robert Port

Pragmatics and metapragmatics: An ecological dialogue

Bert Hodges

10:00 – 10:30 Break

10:30 – 12:00 Open Forum E

Natural images

Thomas A. Stoffregen

Fluctuation and coherence in well-designed art

Miki Goan, Takugo Fukay, and Katsuyoshi Tsujita

Fractal structure in event perception: Lessons from film editing

Julia J. C. Blau, Damian G. Stephen, and Claudia Carello

Emergence, ecological psychology, and philosophy of mind

Stephanie C. Petrusz and Michael T. Turvey

12:00 – 13:30 LUNCH

13:30 – 15:00 Symposium: Interpersonal coordination in more natural contexts

Organizers: Richard C. Schmidt and Ludovic Marin

Postural coordination: A paradigm for interpersonal multi-joint coordination

Ludovic Marin, Manuel Varlet, Julien Lagarde, and Benoît Bardy

Dynamical characterization of semantic coupling in child-caregiver interaction

Rick Dale and Nicholas D. Duran

Inter-personal coordination: Sport contests as complex (dynamical) systems

Tim McGarry

Dynamics of interpersonal coordination in team sports

Pedro Passos, João Milho, Sofia Fonseca, João Borges, Duarte Araújo, and Keith Davids

15:00 – 15:30 Break

15:30 – 17:00 Symposium: Emergent forms of action during learning and development

Organizers: Jeffrey J. Lockman and John J. Rieser

Emerging actions: Discovery and selection of new means

Karen Adolph

Object manipulation as a foundation for tool use

Jeffrey J. Lockman

Transitions in forms of throwing

John J. Rieser

Transitions in forms of locomotion

Herbert L. Pick

17:15 Board buses for dinner cruise

21:00 Return to Minneapolis campus

Thursday, July 16

08:00 – 08:30 Conference Registration

08:30 – 10:00 Symposium: Informational guidance and distributed control in design of assistive devices

Organizer: Eugene C. Goldfield

On Iberall, spacesuits, and assistive mobility devices

Leia Stirling, Allison Anderson, and Dava Newman

Inertial sensing for estimating human kinematics

Diana Young, Leia Stirling, Steve Chamberlin, and Marc Weinberg

Self-organizing modular robots for collective actuation

Chih-Han Yu, Radhika Nagpal, Robert Wood, and Leia Stirling

Information and dynamics as foundations for assistive devices

Eugene C. Goldfield, Kenneth Holt, Elliot Saltzman

10:00 – 10:30 Break

10:30 – 12:00 Open Forum F

Nurse managers' work domain: Complex, challenging and increasingly constrained

Judith A. Effken, Melanie Logue, and Ya-Chuan Hsu

Personification effects

Chris Miller

Event streaming: Process constraints on affordance degrees of freedom

Robert Shaw and Jeffrey Kinsella-Shaw

Understanding ecological auditory perception

Gitte Skou Petersen

12:00 – 13:30 LUNCH

13:30 – 15:00 Symposium: Ecological approaches to music perception

Organizer: Marilyn Nonken

Moving to hear music

Ramesh Balasubramaniam

Listening as adaptive behavior: ecological and biosemiotic claims

Mark Reybrouck

Perception of live and recorded musical performances: "... like walking through the streets of Berlin..."

Marilyn Nonken

15:00 – 15:30 Break

15:30 – 17:00 Symposium: Prospectivity in perception-action
Organizers: Jeffrey B. Wagman and Takahiro Higuchi

Perceiving nested affordances: Investigating a perceptual constancy of affordances

Jeffrey B. Wagman

Prospective control in running through apertures by American football players

Takahiro Higuchi, Go Murai, Akifumi Kijima, Kuniyasu Imanaka, and Jeffrey B. Wagman

Dynamic reaching in infants

Kasey C. Soska and Karen E. Adolph

Perceiving affordances for navigating through openings

John M. Franchak, Dina J. van der Zalm, Bridget M. Hartzler, and Karen E. Adolph

17:00 – 18:30 Poster session II

Friday, July 17

08:00 – 08:30 Conference Registration

08:30 – 10:00 Open Forum G

How infants may harness available elastic potential energy during swallowing: A videofluoroscopic analysis

Eugene C. Goldfield, Carlo Buonomo, Jennifer Perez, and Stacey Margetts

Learning and transfer in motor-respiratory coordination

Eric E. Hessler and Polemnia G. Amazeen

Response time dynamics of children and adults

Guy C. Van Orden, Adam W. Kiefer, Lori Gresham, Heidi Kloos, Kevin Shockley, and Michael A. Riley

A movement theory of vocal/gestural expression of emotion

David N. Lee, Jonathan Delafield-Butt, Jon Perkins, Benjamin Schogler, and Joanne Smith

10:00 – 10:30 Break

10:30 – 12:00 Open Forum H

Optic flow generated by the motion of running vehicle guides the gaze coordination between car driver and passenger: The “mOE” hypothesis

Hiroshi Inou, Mamoru Sawada & Hiroyuki Mishima

A multifractal approach to development in *D. Discoideum*

Damian G. Stephen and James A. Dixon

Action abilities influence perception of size and distance

Jessica K. Witt

12:00 – 13:30 LUNCH

13:30 – 15:00 Symposium: Insights into cognition from action dynamics

Organizers: Rick Dale, Fred Hasselman, and Ralf F. A. Cox

Tracking trajectories in a landscape of learning

Rick Dale, Kristy Snyder-Tapp, and Emily M. Mathis

Towards a dynamic embodied ideomotor principle

Ralf F. A. Cox and Fred Hasselman

Action dynamics reveal implicit racial bias

Fred Hasselman

Disequilibrium in the mind, disharmony in the body

Sidney D'Mello, Rick Dale, and Arthur C. Graesser

15:00 – 15:30 Break

15:30 – 17:00 Closing session

19:30 – 21:30 Conference Banquet
Coffman Union, Minneapolis (4th floor)