

POSTER SESSION A, Wednesday June 26 (16:30-18:00)

A1. Perception of affordances for receiving serves in virtual volleyball: Higher order affordances in real time

Danilo G. Arruda¹, Jeffrey B. Wagman² & Thomas A. Stoffregen¹

¹*University of Minnesota, USA*

²*Illinois State University, USA*

A2. From exploration to information detection: The effects of practice conditions on task performance while using a sensory substitution device

Saroosh Bilal¹, Raoul M. Bongers², David M. Jacobs¹ ¹Autonomous

University of Madrid, Spain

²*University Medical Center Groningen, The Netherlands*

A3. Unfamiliar environments and the use of electronic aids by visually impaired individuals: A qualitative study

Saroosh Bilal¹, Jorge Rebate², Veronica Sevillano¹, David M. Jacobs¹ ¹Autonomous

University of Madrid, Spain

²*Once Foundation in Madrid, Spain*

A4. Predicting repetitive worker behaviour using eye-gaze

Erik Billing¹, Anna Brolin¹, Raquel Quesada Díaz¹, Malin Eklund¹, Dan

Lämkkull^{1,2} ¹University of Skövde, Sweden

²*Volvo Car Corporation in Gothenburg, Sweden*

A5. Basketball teams as complex adaptive systems: A temporal network analysis of collective behavior and performance

Quentin Bourgeois¹, Rodolphe Charrier², Eric Sanlaville², Ludovic

Seifert¹ ¹University of Rouen Normandy, France

²*Normandy University Le Havre, France*

A6. Integer ratio biases in rhythm reproduction are predicted by neural oscillation and hebbian learning

Hayes Brenner, Edward Large, Ji Chul Kim University

of Connecticut, USA

A7. Differences in practice effects between geometric and dynamic affordances in a reaching task

Giacomo Bressanello, Naomi Schreurs, Raoul M. Bongers, Joanne Smith University

Medical Center Groningen, University of Groningen, The Netherlands

A8. Striking a balance: The role of baseline postural differences and noise type in noise-based stimulation effects

Nicole S. Carver, Scott G. Fasone, Paula L. Silva

University of Cincinnati, USA

A9. A ball-and-board game based on coordination for re-learning postural stability in ACL rehabilitation

Anaëlle Cheillan¹, David M. Jacobs², João Milho³, Pedro Passos¹

¹*University of Lisbon, Portugal*

²*Autonomous University of Madrid, Spain*

³*Higher Institute of Engineering Lisbon, Polytechnic Institute Lisbon, Portugal*

A10. Modelling the continuous jab and cross combinations of boxing as nonlinear oscillators

Szu-Hong Cheng, Yeou-Teh Liu

National Taiwan Normal University in Taipei, Taiwan

A11. Me against the world: Influences of actor vs. environment variation on affordance-guided behavior

Dalton S. Cooper, Emily Wang, Dominic Bley, Tehran J. Davis

University of Cincinnati, USA

A12. What makes a ball interceptable? Examining the affordance of interceptability for oneself

Samruddhi Damle¹, Reinoud Bootsma², Frank Zaal¹

¹*University Medical Center Groningen, The Netherlands*

²*Aix-Marseille University, France*

A13. Object identification with a minimal sensory substitution glove *Carlos de*

Paz¹, David Travieso¹, Manuel Heras-Escribano², Lorena Lobo³

¹*Autonomous University of Madrid, Spain*

²*University of Granada, Spain*

³*Madrid Open University (UDIMA), Spain*

A14. Perceptual learning of feelies is influenced by viewpoint, motion, and affordance priming

Catherine Dowell¹, McKenzie Gunter², Alen Hajnal²

¹*University of Southern Indiana, USA*

²*University of Southern Mississippi, USA*

A15. Affordances: A knowledge representation towards human-robot interaction

Bastien Dussard, Guillaume Sarthou, Aurélie Clodic
University of Toulouse, France

A16. Development of audio-visual «looming» perception in infants receiving extra motor stimulation and full-term controls: A longitudinal high-density electroencephalography study

Anne Kristine Eggen, Audrey van der Meer, Silje-Adelen Nenseth

Norwegian University of Science and Technology (NTNU) in Trondheim, Norway

A17. Local navigation strategies guide global route selection

Cassandra Engstrom, William H. Warren Brown

University in Rhode Island, USA

A18. Learning to produce challenging multi frequency coordination patterns with transformed visual feedback

Spencer Ferris, Steven Masi, Steven J. Harrison University of Connecticut, USA

A19. Haptic perception in children with Down syndrome: The perception of rods' length and usefulness

Sergio T. Fonseca, Juliana M. Ocarino, Marisa C. Mancini Federal University of Minas Gerais, Brazil

A20. Effect of wearing tensegrity-organized elastic bands on postural control in children with Down syndrome

Sergio T. Fonseca¹, Clarissa C. Paz², Thiago R. Santos³, Priscila Araújo¹, Marisa C. Mancini¹

¹Federal University of Minas Gerais, Brazil

²University of Brasília, Brazil

³Federal University of Uberlandia, Brazil

A21. Emergence and transition in the development of locomotion in Brazilian infants from 5 to 18 months old: A longitudinal study during the COVID Pandemic

Maylli Daiana Graciosa¹, Edison de Jesus Manoel¹, Ana Angelica Ribeiro de Lima¹, Rene Drezner¹, Priscilla A. Monteiro Ferronato²

¹School of Physical Education and Sport, University of Sao Paulo, Brazil

²McGill University, Montreal, Canada

A22. An ecological approach to motor learning

Ran Zheng, John van der Kamp

Free University of Amsterdam, The Netherlands

A23. Towards a framework of aesthetic and artistic sense-making: Threefold beauty

Lisa-Maria van Klaveren¹, Gemma Schino¹, Hector Gallegos González¹, Theisje van Dorsten², Barend van Heusden¹, Ralf Cox¹

¹University of Groningen, The Netherlands

²University College Groningen, University of Groningen, The Netherlands

A24. Coordinative structures exploit co-activation and co-variation of muscles

Raoul Bongers¹, Iris Slooter¹, Morten Kristoffersen²

¹University Medical Center Groningen, The Netherlands

²University of Gothenburg, Sweden

A25. Affordances for transgression: Theatre eco-niches allowing violations

LeGrace Benson

State University of New York, USA

A26. XXX

Markus Lappe

POSTER SESSION B, Thursday June 27 (16:30-18:00)

B1. Nested affordances in person-object systems: How body- and action-scaling interplay to support calibration in aperture crossing

Gisele C. Gotardi¹, Matt Miller-Dicks², Ludovic Seifert¹

¹*University of Rouen Normandy, France*

²*University of Portsmouth, United Kingdom*

B2. Contact surface curvature length specifies graspability

McKenzie L. Gunter, Myah Kelly, Alen Hajnal

University of Southern Mississippi, USA

B3. A unified account of current-future control & affordance-based control

Dees B. W. Postma¹, Frank T. J. M. Zaa² ¹*University of Twente, The Netherlands*

²*University Medical Center Groningen, The Netherlands*

B4. Quantum Mechanics in perception and action?

Robert Heath¹, Thomas A. Stoffregen²

¹*Hiawatha Valley Education District, Minnesota, USA*

²*University of Minnesota, USA*

B5. Audiovisual speech perception in children with ASD: Lessons from behavioral and neurobiological methods

Julia Irwin

Southern Connecticut State University, USA

B6. An intrinsic role of the human nose in postural control

Mariko Ito¹, Takayuki Kondoh², Hiroyuki Mishima²

¹*Sapporo Gakuin University, Japan*

²*Waseda University, Japan*

B7. Do probing dynamics differ when perceiving different properties of the probe-surface system?

Arghya Kashyap¹, Kwesi Blankson¹, Alen Hajnal², Jeffrey B. Wagman¹

¹*Illinois State University, USA*

²*The University of Southern Mississippi, USA*

B8. Analyzing whole-body coordination in perception-action system during slacklining

Kentaro Kodama¹, Hideo Yamagiwa², Yu Ozawa³, Kazuhiro Yasuda⁴ ¹*Tokyo*

Metropolitan University, Japan

²*Tokyo Metropolitan Tobu Medical Center, Japan*

³*Tokai University, Japan*

⁴*Waseda University, Japan*

B9. First-order derivative of optic flow is helpful for direct perception of non-rigid motion but not for oculomotor pursuit

*Krischan Koerfer, Markus Lappe
University of Münster, Germany*

B10. A longitudinal HD EEG study of perception of occluded moving objects in preterm and full-term infants and children

*Ingrid B. Larsen, Audrey van der Meer, Silje-Adelen Nenseth
Norwegian University of Science and Technology (NTNU) in Trondheim, Norway*

B11. What does “ping pong” afford? - The role of acoustic cues in table tennis

*Li-Yin Lin, Yeou-Teh Liu
National Taiwan Normal University in Taipei, Taiwan*

B12. Attentional constraints and the symmetry of discrete movement dynamics

*Yeou-Teh Liu¹, Karl M. Newell²
¹National Taiwan Normal University in Taipei, Taiwan
²University of Georgia, USA*

B13. Motivation to practice physical activity with an adaptive socially assistive robot in individuals with schizophrenia

*J. Lozano-Goupil¹, S. Raffard², R. C. Schmidt³, L. Marin¹, G. Mostafaoui⁴
¹University of Montpellier & IMT Mines Alès, France
²University Hospital Center in Montpellier, France
³College of the Holy Cross in Worcester, Massachusetts, USA
⁴|| Cergy Paris University, France*

B14. Moving with someone happy makes you happy

*Juliette Lozano-Goupil, Mathilde Parisi, Benoit Bardy, Ludovic Marin
University of Montpellier & IMT Mines Alès, France*

B15. Fractal scaling of low-level perceptual variables in films and subjective aesthetic appraisals of viewers

*Lucrezia Lucchi¹, Lisa-Maria van Klaveren^{1,2}, Julia J. C. Blau³, Ralf F. A. Cox¹
¹University of Groningen (RUG), The Netherlands
²Amsterdam University Medical Center, University of Amsterdam, The Netherlands
³Central Connecticut State University, USA*

B16. Tuned pendulums improve performance of a 1:2 coordination pattern task, but training with those pendulums may help or hinder performance in the task once the pendulums are removed

*Steven Masi, Spencer Ferris, Steven Harrison
University of Connecticut, USA*

B17. Global contextual constraints influence affordance-based behavioral transitions in a virtual reality pass-through aperture task

*Tarcisio S. Moreira, Dalton S. Cooper, Jeromy Alt, Paula Silva, Tehran Davis
University of Cincinnati in Ohio, USA*

B18. The effects of locomotor asymmetry on coordination and visual task performance

*Charles Danee Napoli, Richard E. A. van Emmerik
University of Massachusetts in Amherst, USA*

B19. Observation in everyday environments: Understanding the development of behavior embedded in places and events

*Chihiro Nishio
Konan University, Japan*

B20. Affordance dynamics during gender-affirming hormone therapy

*Patric Nordbeck, Otto E. Snoeren, Tove Lundberg
Lund University, Sweden*

B21. The effects of ambient light intensity on affordance perception

*Tyler Overstreet, Myah Kelly, Ron Dickson, Alen Hajnal
The University of Southern Mississippi, USA*

B22. Drawing animals in the palaeolithic: Investigating the roles of perspective and outline completeness

*Murillo Pagnotta, Mateusz Psujek, Riccardo Fusaroli, Kristian Tylén Aarhus
University, Denmark*

B23. Towards a framework of aesthetic and artistic sense-making

Lisa-Maria van Klaveren^{1,2}, Ralf Cox², Gemma Schino², Theisje van Dorsten², Barend van Heusden²

¹Amsterdam University Medical Center, The Netherlands

²University of Groningen, The Netherlands

B24. Interactive basis for abstract concepts understanding

Joanna Raczaszek-Leonardi et al.

POSTER SESSION C, Friday June 28 (16:30-18:00)

C1. Interpersonal coordination in (almost) doctor-patient communication

Kinga Palatinus, Zsolt Dudás, Oguz Kelemen

University of Szeged, Hungary

C2. Multifractal analysis of developing map reading skills

Zsolt Palatinus¹, Zsolt Dudás¹, Ádám Tóth¹, Anett Kádár¹, Viktor Pál¹, Péter Bagoly-Simó²

¹University of Szeged, Hungary

²Humboldt University in Berlin, Germany

C3. Psychological and physiological outcomes of interpersonal synchrony during yoga

Caitrín Hall, Alexandra Paxton

University of Connecticut, USA

C4. Do arm-support exoskeletons affect pointing movements and accuracy?

Balagopal Raveendranath, Christopher C. Pagano, Divya Srinivasan

University in South Carolina, USA

C5. An ecological approach to colored shadows in nature and art

Catherine Read

Rutgers University, Ithaca College, USA

C6. Metacommunication and understanding in computer-mediated narratives

Lucia Rivas¹, Kerry S. Kleyman², Alexandra Paxton¹

¹University of Connecticut, USA

²Metro State University in Minnesota, USA

C7. MultiSOCIAL toolbox: An open-source library for quantifying multimodal social interaction

Veronica Romero¹, Tahiya Chowdhury¹, Alexandra Paxton²

¹Colby College, USA

²University of Connecticut, USA

C8. The role of emotions in sense-making with art: An interdisciplinary study

Gemma Schino¹, Samrddhee Pathare¹, Lisa-Maria van Klaveren^{1,2}, Theisje van Dorsten³,

Barend van Heusden¹, Ralf Cox¹

¹University of Groningen (RUG), The Netherlands

²Amsterdam University Medical Center, University of Amsterdam, The Netherlands

³University College Groningen, University of Groningen, The Netherlands

C9. Motor control consequences of constraining postural sway during practice of an upper-limb precision aiming task in individuals with chronic stroke

Sarah M. Schwab-Farrell, Tehran J. Davis, Michael A. Riley, Paula L. Silva

University of Cincinnati in Ohio, USA

C10. Task constraints influence how social affordances are nested in rugby union *Ludovic Seifert*¹, *Guillaume Hacques*², *Quentin Bourgeois*¹, *Mickael Campo*³ ¹*University of Rouen Normandy, France*

²*University of Clermont-Ferrand, France*

³*University of Bourgogne, France*

C11. Gap perception in porpoises and dolphins: Passability estimation for vertical and horizontal gaps *Natsumi Shibata*¹, *Seiichi Kajii*², *Masatoshi Tsunokawa*², *Kiyohide Ito*³, *Takashi F. Matsuishi*¹

¹*Hokkaido University, Hokkaido, Japan*

²*Otaru Aquarium, Co., LTD., Hokkaido, Japan*

³*Future University Hakodate, Hokkaido, Japan*

C12. Out of sight, out of mind? Neuronal gamma oscillations during occlusion events in babies

Regine Slinning, Seth B. Agyei, Silje H. Kristoffersen, Ruud van der Weel, Audrey van der Meer
Norwegian University of Science and Technology (NTNU) in Trondheim, Norway

C13. Extrinsic time, intrinsic time

*Thomas A. Stoffregen*¹, *Robert Heath*²

¹*University of Minnesota, USA*

²*Hiawatha Valley Education District, Minnesota, USA*

C14. Opening the black box of team-based learning: Exploring team learning dynamics in online application sessions

Lisa-Maria van Klaveren, Linda Roossien, Tobias Boerboom, Rien de Vos
University of Amsterdam, The Netherlands

C15. Disruptive behaviors in backchannels and eye-contacts during dyadic interaction in schizophrenia

Victor Vattier^{1,2,3}, *Ludovic Marin*^{2,4}, *Richard Schmidt*⁶, *Tifenn Fauviaux*^{2,4}, *Mathilde Paris*^{2,4}, *Stéphane Raffard*^{3,5}

¹*Laboratory of Psychology Epsilon Montpellier*

²*Euromov DMH Montpellier, France*

³*University of Montpellier III - Paul Valery, France*

⁴*University of Montpellier, France*

⁵*CHU Montpellier, France*

⁶*College of the Holy Cross in Worcester, Massachusetts, USA*

C16. Infant age classifier for a baby brain-computer interface

Đorđe Veljković, Silje-Adelen Nenseth, Audrey van der Meer, Seth B. Agyei
Norwegian University of Science and Technology (NTNU) in Trondheim, Norway

C17. How many potential collisions do we respond to at once: Investigating the efficacy of visual thresholds in human crowds

Kyra Veprek, William H. Warren

Brown University in Rhode Island, USA

C18. When left means right: Spatiotemporal extension and stimulus-response compatibility

Emily Wang, Tehran J. Davis, John G. Holden, Kevin Shockley
University of Cincinnati in Ohio, USA

**C19. Development of visual motion perception in full-term and preterm infants and children:
A longitudinal high-density EEG study**

Jin Wang, Audrey Van der Meer, Seth B. Agyei, Silje-Adelen Nenseth
Norwegian University of Science and Technology (NTNU) in Trondheim, Norway

**C20. Seeing the unseen boundary behind you: Predicting the out-of-bounds of flick serves in playing
badminton doubles**

Zuoqi Zhang, Zhichen Feng, Tristan Wallhead, Kenneth Gerow, Qin "Arthur" Zhu
University of Wyoming, Laramie, USA

C21. Modeling the angle-of-approach effect in manual lateral interception

Danial Borooghani, Remy Casanova, Frank T. J. M. Zaal, Reinoud J. Bootsma

C22. XXX

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C23. Observational study on transitions of activities in childcare facilities.

Kei Aoyama, Chihiro Nishio, Yuki Sato

