

RobotDoC

Robotics for Development of Cognition

POSTGRADUATE CONFERENCE ON ROBOTICS AND DEVELOPMENT OF COGNITION - RobotDoC-PhD (TM6)

Lausanne, 10-12 September 2012

Université de Lausanne, Building Internef, Quartier Dorigny, 1015 Lausanne
Room 123, 125

From	To	Monday 10/09	Tuesday 11/09	Wednesday 12/09
09:00	09:30		Keynote: Malinda Carpenter	Talks "Embodiment and Motor Skills 1"
09:30	10:00		Coffee break	Coffee break
10:00	10:30		Talks "Interaction and Social Learning"	Talks "Embodiment and Motor Skills 2"
10:30	11:00			Conclusion
11:00	11:30			
11:30	12:00		Lunch	
12:00	12:30			
12:30	13:00		Talks "Spatial Perception"	
13:00	13:30			
13:30	14:00			
14:00	14:30		Coffee break	
14:30	15:00	Registration		
15:00	15:30	Welcome Speech	Keynote: Lionel Boillot	
15:30	16:00	Keynote: Minoru Asada		
16:00	16:30	Coffee break	Poster session	
16:30	17:00	Talks "Cognitive Development"		
17:00	17:30			
17:30	18:00			
18:00	18:30			
18:30	19:00	Buffet		
19:00	19:30			

Day 1 - MONDAY 10 SEPTEMBER 2012

14:30-15:00 Registration

15:00-15:30 Welcome Speech

15:30-16:30 Plenary Session 1 (Minoru Asada, Chair: V. Narayan)

16:30-17:00 Coffee break

Session “Cognitive Development” (Chair: C. Elsner)

17:00-17:30 I. Giannopulu, “From typical neurocognitive development to neurorehabilitation of autistic children using mobile toy robots”

17:30-18:00 J. de Greeff, P. Baxter, R. Wood, T. Belpaeme, “From Penguins to Parakeets: a Developmental Approach to Modelling Conceptual Prototypes”

18:00-18:30 M. Rucinski, F. Stramandinoli, “An Embodied View on the Development of Symbolic Capabilities and Abstract Concepts”

18:30-19:30 Light Buffet

TUESDAY 11 SEPTEMBER 2012 – Day 2

09:00 Arrival

09:00-10:00 Plenary Session 2 (Malinda Carpenter, Chair: M. Rucinski)

10:00-10:30 Coffee break

Session “Interaction and Social Learning” (Chair: F. Stramandinoli)

10:30-11:00 S. K. Hasnain, P. Gaussier, G. Mostafaoui, “A synchrony based approach for human robot interaction”

11:00-11:30 S. M. Nguyen, P-Y. Oudeyer, “Whom Will Choose an Intrinsically Motivated Robot Learner to Imitate from?”

11:30-12:00 F. Pugliese, D. Marocco, A. Acerbi, “Emergence of Leadership in a Group of Autonomous Robots”

12:00-13:00 Lunch

Session “Spatial Perception” (Chair: V. Narayan)

13:00-13:30 B. J. Grzyb, V. Castello, A. P. del Pobil, “Reachable by walking: inappropriate integration of near and far space may lead to distance errors”

13:30-14:00 L. Rat-Fischer, J. K. O'Regan, J. Fagard, “Infants' perception from the physical relations between objects”

14:00-14:30 J. Leitner, S. Harding, M. Frank, A. Foerster, J. Schmidhuber, “Towards Spatial Perception: Learning to Locate Objects From Vision”

14:30-15:00 Coffee break

15:00-16:00 Plenary Session 3 (Lionel Boillot, Chair: F. Stramandinoli)

16:00-18:00 Poster Session

20:00 Social Dinner

WEDNESDAY 12 SEPTEMBER 2012 – Day 3

09:00 Arrival

Session “Motor Skills and Embodiment” (Chair: C. Alessandro / N. Kuupuswamy)

9:00-9:30 Y. Yamada, Y. Kuniyoshi, “Emergent Spontaneous Movements Based on Embodiment: Toward a General Principle for Early Development”

9:30-10:00 S. Ramirez-Contla, A. Cangelosi, D. Marocco, “Developing Motor Skills for Reaching by Progressively Unlocking Degrees of Freedom on the iCub Humanoid Robot”

10:00-10:30 Coffee break

10:30-11:00 A. Ranganath, J. Gonzalez-Gomez, L. Moreno, “Morphology Dependent Distributed Controller for Locomotion in Modular Robots”

11:00-11:30 U. Martinez-Hernandez, N. F. Lepora, H. Barron-Gonzalez, T. Dodd, T. J. Prescott, “Edge and plane classification with a biomimetic iCub fingertip sensor”

11:30-12:00 Conclusion of the Conference

Posters

D. Bailly, P. Andry, P. Gaussier, "From low level motor control to high level interaction skills"

M. F. Stoelen, D. Marocco, A. Cangelosi, F. Bonsignorio, C. Balaguer, "Hebb-like Learning for the Grounding of High-Level Symbols in Sensorimotor Trajectories"

M. Versteegh, C. Bergmann, L. ten Bosch, L. Boves, "Active Learning in a Computational Model of Word Learning"

X. Hinaut, M. Petit, P. F. Dominey, "Online Language Learning to Perform and Describe Actions for Human-Robot Interaction"

A. Aly, A. Tapus, "Integrated Model for Generating Non Verbal Body Behavior Based on Psycholinguistic Analysis in Human-Robot Interaction"

Z-C. Marton, F. Seide, M. Beetz, "Modular Multi-cue Spatio-temporal Perception for Task-adapting Robots"

N. Wilkinson, F. Rea, K. Lohan, G. Metta, G. Gredeback, "Innate Neonatal Face Preference - An Embodied Phenomenon?"

W. Sieklicki, F. Becchi, "On a design of a torque sensor for the iCub humanoid robot"