

CogSys, 4th International Conference on Cognitive Systems

January 27 & 28, 2010, AudiMax, Hauptgebäude, ETH Zurich, Switzerland

<http://www.CogSys2010.ethz.ch>

Wednesday, January 27, 2010

09:00 Registration and Welcome Coffee

09:30 Opening of Conference, Roland Siegwart & Rolf Pfeifer

09:40 EU Initiative Cognitive Systems, Interaction, Robotics
Libor Kral, Head of Unit E5

10:00 Keynote Talk 1 (Chairman: Cedric Pradalier)

J. Kevin O'Regan, "How to Make a Robot that Feels"

10:50 Auditory and Visual Sensing (Chairman: Cedric Pradalier)

DIRAC	Detection and Identification of Rare Audio-visual Cues <i>Fabian Nater</i>
POP	Perception on Purpose <i>Radu Horaud</i>
SEARISE	Smart Eyes: Attending and Recognizing Instances of Salient Events <i>Daniel Oberhoff</i>
SCANDLE	Acoustic Scene Analysis for Detecting Living Entities <i>Susan Denham</i>

12:10 Lunch

13:30 Keynote Talk 2 (Chairman: Rolf Pfeifer)

Yasuo Kuniyoshi, "Towards Emergence of Meaning in Embodied Cognitive Systems"

14:20 Multi-Robot Systems (Chairman: Rolf Pfeifer)

JAST	Joint-Action Science and Technology <i>Ruud Meulenbroek</i>
HERMES	Human-Expressive Representations of Motion and their Evaluation in Sequence <i>Michael Breitenstein</i>
sFly	Swarm of Micro Flying Robots <i>Davide Scaramuzza</i>
URUS	Ubiquitous Networking Robotics in Urban Settings <i>Alberto Sanfeliu</i>

15:40 Coffee Break

16:10 Natural Languages and Content Analysis (Chairman: Rolf Pfeifer)

POETICON	The "Poetics" of Everyday Life: Grounding Resources and Mechanisms for Artificial Agents <i>Katerina Pastra</i>
CLASS	Cognitive-Level Annotation Using Latent Statistical Structure <i>Vittorio Ferrari</i>
ITALK	Integration and Transfer of Action and Language Knowledge in Robots <i>Angelo Cangelosi</i>

17:10 Poster Session (In front of AudiMax)

19:15 Departure at train station for Conference Banquet (Uetliberg)

Thursday, January 28, 2010

09:20 Keynote Talk 3 (Chairman: Rudolph Triebel)

Benjamin Kuipers, "How Can a Robot Learn the Foundations of Knowledge?"

10:10 Robotics

ECCEROBOT	Embodied Cognition in a Compliantly Engineered Robot <i>Owen Holland</i>
ROSSI	Emergence of Communication in Robots through Sensorimotor and Social Interaction <i>Anna Maria Borghi</i>

10:50 Coffee Break (AudiMax)

11:20 Sensory-Motor Systems (Chairman: Rudolph Triebel)

CogX	Cognitive Systems that Self-Understand and Self-Extend <i>Jeremy Wyatt</i>
DIPLECS	Dynamic Interactive Perception-Action Learning in Cognitive Systems <i>Liam Ellis</i>
ROBOSKIN	Skin-based Technologies and Capabilities for Safe, Autonomous and Interactive Robots <i>Giorgio Cannata</i>
PACO-PLUS	Perception, Action und Cognition through Learning of Object-Action Complexes <i>Norbert Krüger</i>

12:40 Lunch

14:00 Keynote Talk 4 (Chairman: Thierry Buecheler)

Karl Grammer "Analogue Communication and the Emergence of Meaning"

14:50 Special Projects

EUROP / euRobotics	<i>The European Robotics Technology Platform</i> <i>Anne Wendel</i>
ECHORD	<i>European Clearing House for Open Robotics Development</i> <i>Alois Knoll / Norberto Pires</i>

15:10 Coffee Break

15:40 Neuro-Science and Bio-Inspired Systems (Chairman: Thierry Buecheler)

BACS	Bayesian Approach to Cognitive Systems <i>Pierre Bessiere</i>
Decisions-in-Motions	Neural Decision-Making in Motion <i>Florian Raudies</i>
SPARK II	Spatial-Temporal Patterns for Action-Oriented Perception in Roving Robots II: An Insect Brain Computational Model <i>Paolo Arena</i>
ChiRoPing	Developing Versatile and Robust Perception Using Sonar Systems that Integrate Active Sensing, Morphology <i>John Hallam</i>

17:00 Closing of Conference, Goodbye Drinks