

CogSys 2012, 5th International Conference on Cognitive Systems

February 22 – 23, 2012, TU Vienna, Austria

<http://cogsys2012.acin.tuwien.ac.at/>

Wednesday, February 22, 2012

9:00 Registration

9:30 Opening, Markus Vincze, Brigitte Krenn, Vizerektor Paul Jankowitsch

9:40 Opening statement of the European Commission, Libor Kral
“EU-funded research in Cognitive Systems and Robotics: From FP7 towards Horizon 2020”

10:00 Keynote Talk 1

Chair: Brigitte Krenn

Stacy Marsella “In our own likeness: Modeling human behaviour in virtual humans”

10:50 Session 1 Robot skills

AMARSI	Adaptive Modular Architectures for Rich Motor Skills <i>Jochen Steil</i>
eSMCs	Extending Sensorimotor Contingencies to Cognition <i>Andreas K. Engel</i>
CompLACS	Composing Learning for Artificial Cognitive Systems <i>John Shawe-Taylor</i>
NeuralDynamics	A neuro-dynamic framework for cognitive robotics: scene representations, behavioural sequences, and learning <i>Georg Schöner</i>

12:10 Lunch

14:00 Keynote Talk 2

Chair: Michael Zillich

Richard Cooper “Towards a General Architecture for the Integration of Reactive and Deliberative Behaviour: Insights from Cognitive Neuroscience”

14:50 Session 2 Beyond single Robots

RoboEarth	robots sharing a knowledge base for world modelling and learning of actions <i>Heico Sandee</i>
ECHORD	European Clearing House for Open Robotics Development <i>Florian Röhrbein</i>

15:30 Posters & Coffee

16:30 Session 3 Manipulation

GRASP	Emergence of cognitive grasping through emulation, introspection, and surprise <i>Danica Kragic</i>
GeRT	Generalising Robot Manipulation Tasks <i>Christoph Borst</i>
TOMSY	Topology Based Motion Synthesis for Dexterous Manipulation <i>Danica Kragic</i>
IntellAct	Intelligent observation and execution of Actions and manipulations <i>Norbert Krüger</i>
Xperience	Robots Bootstrapped through learning from Experience <i>Rüdiger Dillmann</i>

18:10 End

19:30 Dinner at Heurigen "Feuerwehrwagner"

Thursday, February 23, 2012

9:00 Keynote Talk 3:

Chair: Markus Vincze

Mary Hayhoe "*Control of Attention in the Context of Behavior*"

9:50 Session 4 Language and Robots

POETICON & POETICON++	The Poetics of Everyday Life: Grounding Resources and Mechanisms for Artificial Agents <i>Katerina Pastra</i>
NIFTi	Natural human-robot cooperation in dynamic environments <i>Geert-Jan M. Kruijff</i>

10:30 Posters & Coffee

11:30 Session 5 Language and Robots, cont.

ALIZ-E	Adaptive Strategies for Sustainable Long-Term Social Interaction <i>Tony Belpaeme</i>
SAPHARI	Safe and Autonomous Physical Human-Aware Robot Interaction <i>Alessandro De Luca</i>
RADHAR	Robotic Adaptation to Humans Adapting to Robots <i>Joris De Schutter</i>
HUMOUR	HUMAN behavioral Modeling for enhancing learning by Optimizing hUMAN-Robot interaction <i>Vittorio Sanguinetti</i>

12:40 Lunch

14:00 Keynote Talk 4:
Chair: Markus Vincze

Minoru Asada “Cognitive Developmental Robotics as Embodied Cognitive Systems”

14:50 Session 6 Swarms

Goal-Leaders	Goal-directed, Adaptive Builder Robots <i>Giovanni Pezzulo</i>
CoCoRo	Collective Cognitive Robots <i>Thomas Schmickl</i>

15:30 Posters & Coffee

16:20 Session 7 Applications

V-CHARGE	V-Charge - Autonomous Valet Parking and Charging for e-Mobility <i>Paul Furgale</i>
EuroSurge	Coordination Action - European Robotic Surgery <i>Paolo Fiorini</i>

17:00 End CogSys 2012

17:00 euCogIII Primer

18:00 End

18:30 Social Event – Traditional Austrian Punsch, Ice Skating and Ice Stick Shooting

(ice skating on one's own responsibility)

20:30 Dinner at “Salmbräu”