

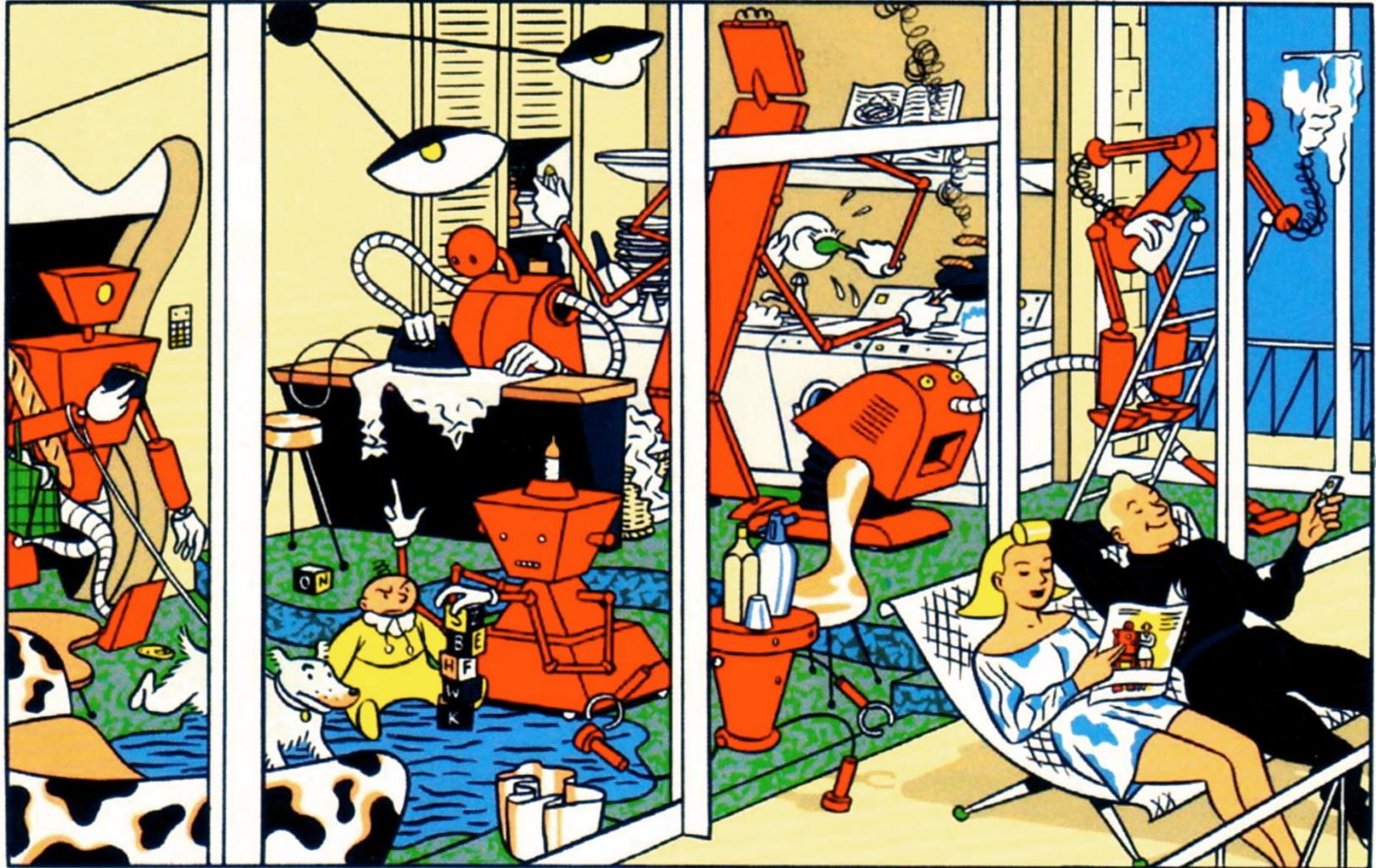


# Welcome to CogSys 2012

**5th International Conference on Cognitive Systems  
22. – 23. February 2012, TU Wien, Austria**

# Cognitive Systems

# Cognitive Systems 2032?



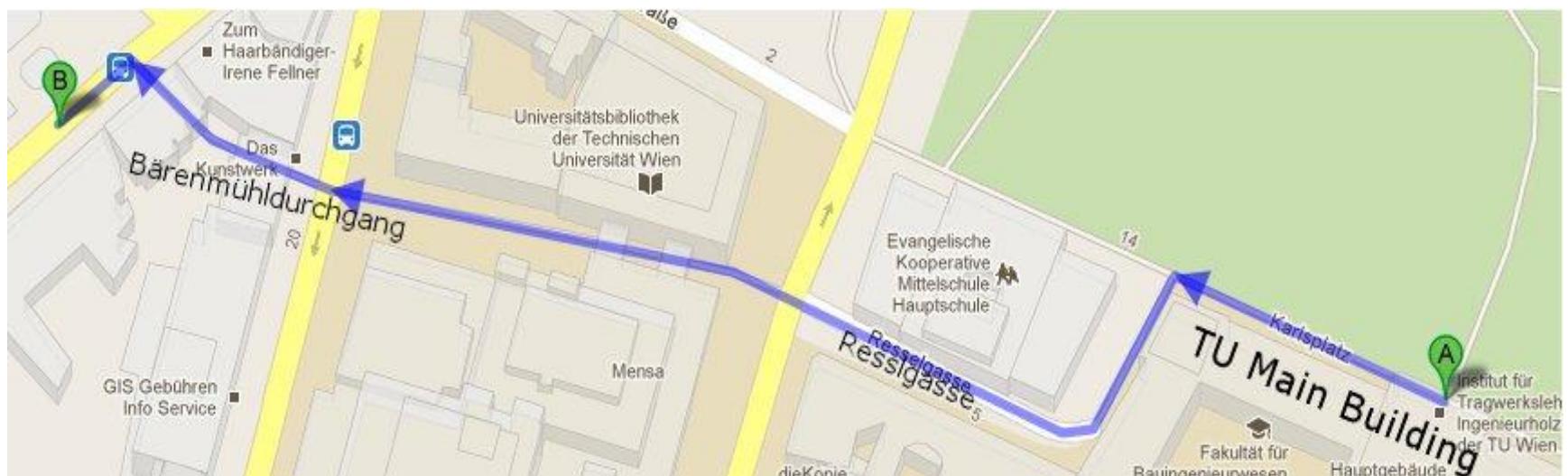
Y. CHALAND

« LES ARTS MÉNAGERS »

# CogSys 2010

2012

# Lunch 2012



# Program

**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>

**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**

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**17:00 End CogSys 2012**

**17:00 euCogIII Primer**

**18:00 End**

**18:30 Social Event – Traditional Austrian Punch, Ice Skating and Austrian/Bavarian Curling (ice skating on one's own responsibility)**

**20:30 Dinner at “Salmbräu”**

# Sponsors



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# Big Thanks to the Team

- **Programme Co-Chairs:**
  - Michael Zillich TU Vienna, Austria
  - Gregor Sieber OFAI, Austria
- **Webmaster:** Carina Pichler
- **Administration:** Carina Pichler, Manuel Kuhn
- **EU-Liaison:** Bjoern Juretzki
- **EUCogIII – Liaison:** Vincent C. Mueller
- **CogSys 2010 – Liaison:** Cedric Pradalier
- **Conference Assistants:** Stefanie Schreitter, Alexandra Klein, Lara Lammer, Peter Lukan, Simon Hellmayr, Daniel Piri, Ekaterina Potapova

# Enjoy Vienna and CogSys 2012



# Dinner at Heurigen “Feuerwehr Wagner”

- U4 Karlsplatz → Heiligenstadt
- 38A direction “Wagenwiesen” and get out at the bus stop “Neugebauerweg”
- Grinzinger Straße 53





DER PFLEGE, ERWEITERUNG, VEREDLUNG,  
DES GEWERBESFLIESSES DER BYGER KUNSTE DES HANDELS  
FRANZ. DER. ERSTE.

TECHNISCHE HOCHSCHULE



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DES GEWERBESFLEISSES DER BÜRGERVERKUNSTE DES HANDELS  
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