



Integration and Transfer of Action and Language Knowledge Workshop

Rome, 22-24 September 2008
Università degli Studi Roma TRE
Piazza della Repubblica, 10

MONDAY 22 SEPTEMBER 2008 – Aula III, second floor

13:00-13:30 Welcome

Chair: G. Sagerer

13:30-14:15 **A. Cangelosi** (Plymouth University, UK)

Welcome and introduction to RoadMap on the Integration of Action and Language in Robots

14:15-15:00 **C. Nehaniv** (Hertfordshire University, UK)

Robot Learning of Holophrases, Words and Proto-Grammar from Simulated Babbling and Physical Interaction

15:00-15:45 **S. Nolfi** (Institute of Cognitive Sciences and Technologies –CNR, IT)

Co-development of behavioural and cognitive skills

15:45-16.15 Coffee break

Chair: S. Nolfi

16:15-17:00 **L. Fadiga** (Italian Institute of Technology, IT)

From hand actions to speech: evidence and speculations

17:00-17:45 **G. Sagerer** (Bielefeld University, DE)

Bielefeld Vision for Roadmap

17:45-18:30 **K. Fischer** (Southern Denmark University, DK)

The Challenges of Grammar Learning in the ITALK Project

18:30-19:00 (ITALK Consortium Meeting)





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TUESDAY 23 SEPTEMBER 2008 – Aula I, second floor

Chair: C. Nehaniv

09:00-09:45 **A. Glenberg** (Wisconsin University, USA)

Who needs categories? Concepts from episodic representations

09:45-10:30 **I. Pepperberg** (Harvard University, USA)

*Grey parrot (*psittacus erithacus*) vocal learning: creation of new labels from existing vocalizations and issues of imitation*

10:30-11:15 **J. Tani** (RIKEN Brain Science Institute, Japan)

Emergence of Functional Hierarchy in a Multiple Timescales Recurrent Neural Network Model: A Humanoid Robot Experiment

11:15-11:45 Coffee break

Chair: G. Metta

11:45-12:30 **R. Kubat** (Massachusetts Institute of Technology, USA)

Connecting Language to Robot Behaviour: An Architecture of Object Schemas

12:30-13:15 **R. Grush** (California University, S. Diego, USA)

Modelling time and space

13:15-14:30 Lunch

Chair: K. Fischer

14:30-15:15 **G. Metta** (Italian Institute of Technology, IT)

iCub: the open humanoid robot designed for learning and developing complex cognitive tasks

15:15-16:00 **M. Bowerman** (Max Planck Institute, NL)

Constructing event categories in first language acquisition: A cross-linguistic perspective





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16:00-16:45 **K. Plunkett** (Oxford University, UK)

Learning to Associate Object Categories and Label Categories: A Self-Organising Mode

16:45-17:15 *Coffee break*

Chair: J. Tani

17:15-18:00 **L. Steels** (SONY Computer Science Laboratory Paris, FR)

Cognition and social dynamics play a major role in the formation of grammar

18:00-18:45 **J. de Ruiter** (Max Planck Institute for Psycholinguistics in Nijmegen, NL)

Neurocognitive Foundations of Joint Action

18:45-19:15 **S. Harnad** (University of Montreal - Quebec, CA)

Symbol Grounding, Turing Testing and Robot Talking





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WEDNESDAY 24 SEPTEMBER 2008 – Aula I, second floor

Chair: T. Belpaeme

09:00-09:45 **A. Borghi** (Bologna University, IT)

Embodied models and language grounding

09:45-10:30 **P. F. Dominey** (Robot Cognition Laboratory, Lumière Lyon 2University, FR)

The Basis of Shared Intentions in Human and Robot Cognition

10:30-11:15 **T. Ziemke** (Skövde University, SE)

Embodied Cognition, Emotion & Social Interaction

11:15-11:45 Coffee break

11:45-13:00 RoadMap Panel

13:15-14:30 Lunch

14:30-15:30 EU Project Coordinators Meeting

15:30-16:30 ITALK Consortium Meeting

16:30-17:00 Coffee break

17:00-18.00 ITALK Scientific and Management Committee Meeting

18.00-18.30 ITALK Knowledge Management Committee Meeting

18:30 End of meeting

Participation is free but is limited to registered participants.

To register please contact Diana Giorgini (diana.giorgini@istc.cnr.it, tel. +39.06.44595215)





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Sponsors

ITALK project - <http://italkproject.org/>

University of Plymouth - <http://www.plymouth.ac.uk/>

ISCT-CNR – www.istc.cnr.it

Università degli Studi Roma TRE - <http://www.uniroma3.it/>

Dipartimento di Scienze dell'Educazione - <http://comunicazione.uniroma3.it/dse/>

