

Neural network models of perception, action and embodied knowledge

Department of Psychology, University of Bologna
Summer School, July 13–19, 2005

FINAL PROGRAMME

JULY 13

9:00–9:15 Welcome
P. C. Cicogna, Head of Psychology
9:15–11:00 Neural networks and psychology *D. Parisi*
11:30–13:00 Stimulus generalization
M. Enquist
14:30–18:00 Introduction to neural networks, with models of generalization *S. Ghirlanda*

JULY 14

9:00–11:00 Associative learning
M. Enquist, S. Ghirlanda
11:30–13:00, 14:30–16:00 Neural network models of learning
M. Zorzi
16:30–18:00 Neural network analysis
A. Di Ferdinando

JULY 15

9:00–11:00 Motor control and spatial effects *L. Craighero*
11:30–13:00 Principles of grasping
M. Santello
14:30–16:00 Models of reinforcement learning in spatial

navigation *G. Baldassarre*
16:30–18:00 Neural network models of grasping *G. Tsiotas*

JULY 16

9:00–11:00 Spatial behavior and spatial cognition *G. Vallortigara*
11:30–13:00 Students present their research
14:30–18:00 Free afternoon
20:00 Social dinner

JULY 17

9:00–11:00 Computing with modality-specific simulations
L. Barsalou
11:30–13:00 Categorization in humans and other animals
I. P. L. McLaren
14:30–16:00 Neural network models of categorization and perception
R. Goldstone
16:30–18:00 Neural network models of categorization *S. Nolfi*

JULY 18

9:00–11:00 What it takes to make a

neural network embodied: lessons from language comprehension
A. Glenberg

11:30–13:00 Object concepts and action *A. Borghi*
14:30–16:00 Acting on visual objects
R. Ellis
16:30–18:00 Neural network models of sensorimotor processes
S. Cutini

JULY 19

9:00–11:00 Language and action
M. Gentilucci
11:30–13:00 Neural network models of language and action
A. Cangelosi
14:30–16:00 Neural network models of language evolution *D. Marocco*
16:30–17:45 Neural network models of numerical cognition
I. Stoianov
17:45–18:00 Closing address
A. Borghi, S. Ghirlanda

Coffee breaks: 11:00–11:30 and 16:00–16:30. Lunch breaks: 13:00–14:30

SPEAKERS

Gianluca Baldassarre *Institute for the Science and Technologies of Cognition, CNR, Rome*; **Larry Barsalou** *Department of Psychology, Emory University*; **Anna Borghi** *Department of Psychology, University of Bologna*; **Angelo Cangelosi** *School of Computing, Communications and Technology, University of Plymouth*; **Laila Craighero** *Department of Biomedical Sciences, University of Ferrara*; **Simone Cutini** *Department of General Psychology, University of Padua*; **Andrea Di Ferdinando** *Department of General Psychology, University of Padua*; **Rob Ellis** *School of Psychology, University of Plymouth*; **Magnus Enquist** *Zoology Institution, Stockholm University*; **Maurizio Gentilucci** *Department of Neurosciences, University of Parma*; **Stefano Ghirlanda** *Department of Psychology, University of Bologna*; **Art Glenberg** *Department of Psychology, University of Wisconsin*; **Rob Goldstone** *Department of Psychology, Indiana University*; **Davide Marocco** *Institute for the Science and Technologies of Cognition, CNR, Rome*; **Ian P. L. McLaren** *Department of Experimental Psychology, Cambridge University*; **Stefano Nolfi** *Institute for the Science and Technologies of Cognition, CNR, Rome*; **Domenico Parisi** *Institute for the Science and Technologies of Cognition, CNR, Rome*; **Marco Santello** *Department of Kinesiology, University of Arizona*; **Ivilyn Stoianov** *Department of General Psychology, University of Padua*; **Giorgio Tsiotas** *Department of Psychology, University of Bologna*; **Giorgio Vallortigara** *Department of Psychology, University of Trieste*; **Marco Zorzi** *Department of General Psychology, University of Padua*.