

 <p>What it means to Communicate</p>	<p>NESTCOM</p> <p>What it Means to Communicate</p> <p>Project reference Contract No: 043374 (NEST)</p>
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Special Issue of Neural Networks: “Multimodal communication and what it means to communicate” (WP6)

NESTCOM Report 8

Deliverable 6

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Report Version: 1

Report Preparation Date: 14 February 2008

Classification: Public

Contract Start Date: 1st January 2007

Duration: Two Years

Project Co-ordinator: Professor Stefan Wermter

Project Co-ordinator Organisation: University of Sunderland

Partners: University of Sunderland, Medical Research Council, Universita degli Studi di Parma



Project funded by the European Community under the Sixth Framework Programme NEST - New and emerging science and technology

CALL FOR PAPERS

“Multimodal communication and what it means to communicate”

Special Issue of Neural Networks

The general aim of this special issue is to focus on “What it means to communicate” and to understand the neural, cognitive, formal, computational and developmental features that have led to communication differences between humans and animals. A number of interesting and successful research directions have been explored including learning by imitation, examining the origin of human rule based reasoning, studying the neural origins of language, exploring the evolutionary origins of the human mind, researching into verbal and nonverbal communication, using and interpreting signs, characterising human language by structural complexity, and representing abstract concepts. To complement this, computation and neural robotics aims to explore a multimodal understanding of verbal and visual communication for embodied action understanding leading towards formal models of knowledge representation and reasoning.

We are looking for submissions in the areas including:

- * Neural network models and theories for communication
- * Knowledge representation and hybrid models for communication
- * Plausible reasoning and uncertainty in communication
- * Multimodal integration and crossmodal neural models
- * Formal models of human communication
- * The role of neurally grounded emotion in communication
- * Bioinspired communicating agents with reasoning
- * Neuroscience-inspired robots and communication
- * Communicating agents with an understanding of emotion
- * Developmental approaches to communication
- * Neural networks and imitation
- * Neural approaches to sign and gesture
- * Mirror neuron system and multimodal integration
- * Embodiment of communication and action in robots
- * Language and action circuits
- * The role of formal memory in communication

Co-Editors:

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Submission:

Deadline for submission: May1, 2008
Notification of acceptance: August1, 2008
Deadline for submission of revised papers: October1, 2008
Notification of final acceptance: November1, 2008

Format:

see papers for the journal Neural Networks.

http://www.elsevier.com/wps/find/journaldescription.cws_home/841/description

Submissions:

To be sent to: Stefan Wermter as pdf files at the address below

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