A neuro-dynamic framework for cognitive robotics: scene representations, behavioural sequences, and learning

Fact Sheet

Project Information

**NeuralDynamics**
Grant agreement ID: 270247

Closed project

**Start date**
1 April 2011

**End date**
31 March 2015

Funded under
FP7-ICT

Overall budget
€ 4 005 670

EU contribution
€ 3 050 070

**Coordinated by**
Ruhr-Universitaet Bochum

Germany

Project description

Cognitive Systems and Robotics

Endowing robots with cognition is a long-standing and difficult objective. Substantial progress in cognitive science and neuroscience has led to the insight that cognition is tightly linked to the sensory and motor surfaces, and that cognition emerges during development from relatively low-level mechanisms when situated in a structured environment. Building on basic functions such as detection and selection, **NeuralDynamics** will develop a set of elements of cognition and techniques for combining such elements, allowing to scale towards such cognitive capabilities as
scene representation and sequence generation. The project will implement and evaluate these elements of cognition in scenarios inspired by the development of cognition in early childhood.

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**Fields of science**

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**Programme(s)**

**Topic(s)**

**Call for proposal**

FP7-ICT-2009-6

**Funding Scheme**

**Coordinator**

Ruhr-Universitaet Bochum

Address

Universitaetsstr.
44780 Bochum

Germany

Activity type

Higher or Secondary Education Establishments

EU contribution

€ 1 352 600

Website

Contact the organisation

Administrative Contact

Gregor Schöner (Prof.)
**SCUOLA UNIVERSITARIA PROFESSIONALE DELLA SVIZZERA ITALIANA**

- **Address**: Stabile Le Gerre, 6928 Manno
- **Activity type**: Higher or Secondary Education Establishments
- **Website**: Link
- **Contact the organisation**: Link
- **Administrative Contact**: Jurgen Schmidhuber (Prof.)

**CINTAL - CENTRO INVESTIGACAO TECNOLOGICA DO ALGARVE**

- **Address**: Quinta Da Penha, 8005-139 Faro
- **Activity type**: Research Organisations
- **Contact the organisation**: Link
- **Administrative Contact**: Hans du Buf (Prof.)

**HOGSKOLAN I SKOVDE**

- **Address**: Hogskolevagen 1, 54 128 Skovde
- **Activity type**: Higher or Secondary Education Establishments
- **Contact the organisation**: Link
- **Administrative Contact**: Tom Ziemke (Prof.)