

Inaugural Meeting

16-17 February 2006

Hèrmes Auditorium Nice-Acropolis Convention Centre

www.euCognition.org

DAY 1: INVITED TALKS

- 09:00 Registration
- 09:30 Horst Forster, Director, European Commission Directorate E Content: Welcome and Introduction to euCognition
- 09:45 Concetta Morrone, Università Vita-Salute San Raffaele: Neurophysiological Models of Cognitive Mechanisms
- 10:30 Coffee
- 11:00 Liz Spelke, Harvard University: Core Knowledge of Number and Geometry
- 11:45 Jiří Wiedermann, Academy of Science of the Czech Republic: One Computer Theorist's View of Cognitive Systems
- 12:30 Lunch
- 14:00 Ronald Arkin, Georgia Tech and LAAS/CNRS Toulouse: Behavioral Development for a Humanoid Robot – Towards Life-long Human-robot Partnerships with QRIO
- 14:45 Scott Kelso, Florida Atlantic University: The Coordination Dynamics of Brains and Behavior
- 15:30 Coffee
- 16:00 John Shawe-Taylor, Southampton University: *Learning in Cognitive Systems: Inference of Representations* & Grounding through Interaction
- 16:45 Panel and Audience Discussion
- 18:00 Close

DAY 2: THE EUCOGNITION NETWORK

- 09:00 Overview of the euCognition network
 - Goals
 - Activities
 - Outcomes & on-line resources: the euCognition website
- 09:30 Introduction to the Executive Committee
- 09:40 Operational Matters
 - Becoming a member
 - Claiming Costs
 - Applying for Network Action funding
 - Becoming a contractor
- 10:10 Call for Proposals for Advanced Robotics
- 10:30 Coffee
- 11:00 PARALLEL SESSIONS: Objectives & Activities

Gallieni 2	Gallieni 3	Gallieni B
Scientific Outlook	Outreach	Education & Training
Outreach	Education & Training	Scientific Outlook

- 01:00 Lunch
- 14:30 PARALLEL SESSIONS: Objectives & Activities

Gallieni 2	Gallieni 3	Gallieni B
Education & Training	Scientific Outlook	Outreach

- 15:30 Feedback & Discussion
 - Key issues in each activity
 - Follow-up actions
- 16:30 Close

Goals



Goals

What is euCognition?

FP6 Project 26408 (Coordination Action)

Funded by the European Commission Unit E5 - Cognition



Duration: $1/1/06 \rightarrow 31/12/08$

Budget: €1.6 m



Goals

What do we do?

Foster inter-disciplinary interaction

Build the scientific & engineering foundations of cognitive systems

Facilitate

- Workshops
- Conferences
- Courses
- Exchanges of staff and students
- Development & dissemination of training material
- Access to development platforms
- Research planning
- ... but not research



Goals

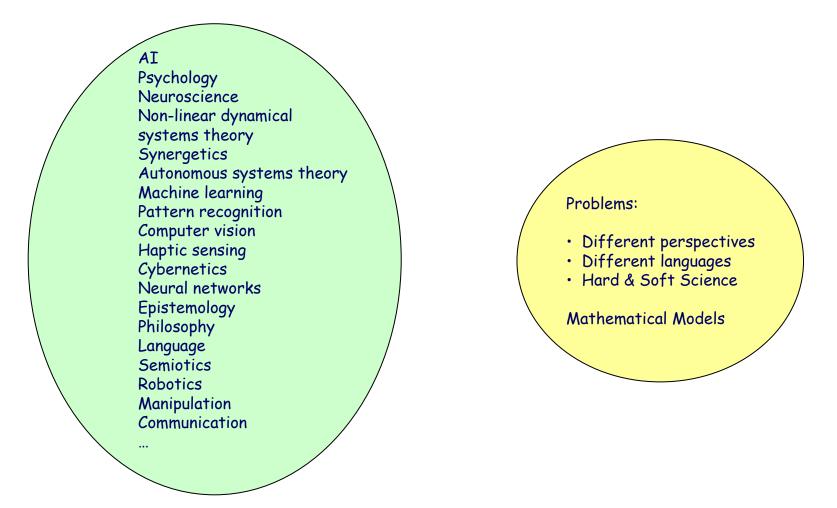
Who is it for?

Open to anyone doing research in the many disciplines that address the issues of creating <u>artificial</u> cognitive systems including (but not limited to)

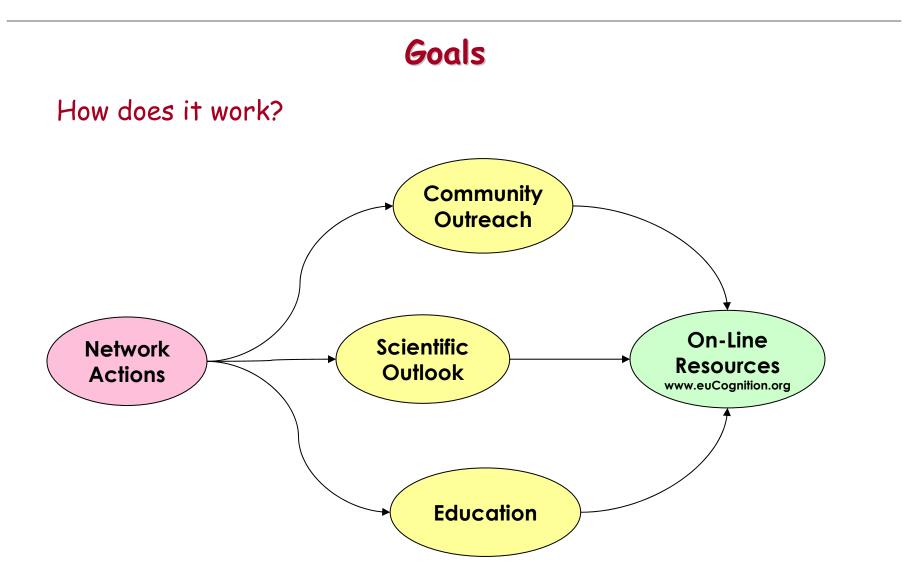
- Neuroscience
- Psychology
- Cognitive science
- Machine Learning
- Autonomous systems theory
- Cognitive robotics
- Mathematical modelling
- Cognitive Vision

• ...









Activities



Network Activities

Community Outreach

- Inter-project collaboration
- Involvement of new blood from both academia and industry
- Exhanges, esp. with those not yet involved in funded projects
- Provide resources for new pilot initiatives (e.g. providing access to platforms for experimental work in embodied cognition)



Network Activities

Scientific Outlook

- Research planning
- Technology watch
- Refining and developing the our characterization of cognition
- Key focus: cross-fertilization of ideas



Network Activities

Education

- Alleviate difficulties posed by the multi-disciplinary nature of the area
- Bridge gaps between sub-disciplines
- Targetted at
 - Research practitioners
 - Graduate students
- Summer schools (cf. commitments of intergrated projects)
- Creation of teaching material

Outcomes & On-line Resources



Outcomes

	Example Events to be Organized	Example Resources to be Produced			
	Outreach				
- - - - - - - - - - - -	Inaugural meeting Six-monthly meetings Inter-project workshops Extra-network workshops Special sessions at conferences Awareness forums at trade fairs & science fairs Short-term exchange/visits of research staff Short-term exchange/visits of post-graduate students Pilot test-bed evaluation of basic cognitive functions Best demonstration prizes in Cognitive Systems	 Repository of demonstrations of example systems (video clips, images, etc.) Special issues in journals Member profiles, indexed by area, interests, physical location, name, etc. Repository of application-oriented demonstration scenarios to drive R&D Articles for general readership Multimedia production for general viewing Comprehensive dynamic website 			
	Scientifi	c Outlook			
-	Thematic Workshops Conferences Access to research platforms Best paper prizes in cognitive systems	 Survey papers on constituent areas Position papers on topical issues Research monographs on constituent areas Research roadmap Identification or creation of common development environments Repository of Open Source software Directory of sources of materials or components, with specifications Repository of test scenarios, test sets, to assist in quantitative evaluation Access to / creation of prototype components (hardware & software) 			
	Education				
	Summer schools Tutorials Prizes for post-graduate work (Ph.D. / M.Sc.) in Cognitive Systems	 Model curricula for cognitive systems Textbook on cognitive systems Courseware for constituent areas Annotated bibliography of publications on cognitive systems 			



On-line resources

www.euCognition.org

- Dynamic repository of resources: outreach, outlook, education
- Cognitive systems community
 - Research
 - Education
- Visibility in the greater community
- Show-case results & example validation experiments
- Forum for sharing information

euCognition

The European Network for the Advancement of Artificial Cognitive Systems

Home	More Info		News	Outreach	•	Outlook	•	Education	•
2.202									
Funded	Network Actions								
Community	Scientific Ed	ducation	0	What is euCognit	ion?	What does	it do?	,	
the matches of the second s	Outlook	Training		the second second		Why should			
On-lit	ne Resources				1011	Wity should	u i jon		
	euCognition.org								



People and Forums



Four principal bodies are involved in the running of the network:

- 1. The Executive Committee
- 2. A Project Coordinators Round-Table Forum
- 3. Assessment Panel
- 4. The European Commission Project Officers

Eva Benova Hans-Georg Stork



Executive Committee

David VernonUniFred CumminsUniMarkus VinczeTeoTom ZiemkeHögErik HollnagelLiniChristoph von der MalsburgRuhBill SharpeTheGuy TiberghienCenJuergen JostMaxAndreas EngelUniPeter F. DomineyCenMatthias ScheutzNot

Università degli studi di Genova (network coordinator) University College Dublin Technische Universitaet Wien Högskolan i Skövde Linköpings Universitet Ruhr-Universitaet Bochum The Appliance Studio Ltd. Centre National de la Recherche Scientifique (CNRS) Max Planck Institute for Mathematics in the Sciences University Medical Center Hamburg-Eppendorf Centre National de la Recherche Scientifique (CNRS) Notre Dame University



Project Coordinators Round-Table Forum

CoSy JAST RobotCub COSPAL MACS SPARK Mind RACES GNOSYS

BACS CASBlip CLASS **Decisions-in-Motion** DIRAC eTRIMS euCognition HERMES ICEA MATHESIS PACO-PLUS POP RASCALLI SENSOPAC

16th - 17th February 2006

Becoming a Member



Membership

- All those that are part of an FP6 cognitive systems project automatically members
 - Need an application form to collect member data
- All members of ECVision (www.ECVision.org) are automatically eligible for membership
 - Need an application form to collect member data
- Membership open to all other who are active in the domain of cognitive systems
 - Submit membership application form
 - Subject to reviewed by Executive Committee



Applicant Information

Title:	
First Name:	
Last Name:	

Bank information for reimbursement of travel and other allowable costs		
IBAN:		
BIC/SWIFT:		
Bank Sort Code:		
Account Number:		
Bank Name:		
Bank Address:		
Account Holder Name:		
Account Holder Address:		



Appendix I: Membership Criteria

The primary criterion for membership is that the applicant must be qualified² and active in the area of cognitive systems and any of its constituent sub-disciplines. In addition, the contribution that the applicant will make to the network should be of interest to the other members and, in particular, it must help in achieving our goal of advancing the scientific and engineering foundations of artificial cognitive systems.

The qualification 'artificial' is important: it does not preclude applicants who work on natural cognitive



Membership

- Non-labour costs incurred by member
 - Reimbursed directly by the coordinating contractor
 - Send in claim with travel receipts, reimbursed by electronic transfer within a month (or less)
- Labour costs
 - Either member becomes a contractor (preferred option)
 - Or reimbursed via a subcontract (avoid if possible)



Membership

- All members eligible to claim travel costs associated with official euCognition event
 - As advertized on the website
 - Subject to guidelines (more later)
- Eligible to apply for limited funding for Network Actions
 - Reviewed by Executive Committee
 - Final approval from Commission PO



Membership

All members commit themselves to making a contribution to the network within the first year



Appendix II: euCognition Activities

Typical Member Contributions

Example Events to be Organized	Example Resources to be Produced		
Outreach			
 Inaugural meeting Six-monthly meetings Inter-project workshops Extra-network workshops Special sessions at conferences Awareness forums at trade fairs & science fairs Short-term exchange/visits of research staff Short-term exchange/visits of post-graduate students Pilot test-bed evaluation of basic cognitive functions Best demonstration prizes in Cognitive Systems 	 Repository of demonstrations of example systems (video clips, images, etc.) Special issues in journals Member profiles, indexed by area, interests, physical location, name, etc. Repository of application-oriented demonstration scenarios to drive R&D Articles for general readership Multimedia production for general viewing Comprehensive dynamic website 		
Scientific	Outlook		
 Thematic Workshops Conferences Access to research platforms Best paper prizes in cognitive systems 	 Survey papers on constituent areas Position papers on topical issues Research monographs on constituent areas Research roadmap Identification or creation of common development environments Repository of Open Source software Directory of sources of materials or components, with specifications Repository of test scenarios, test sets, to assist in quantitative evaluation Access to / creation of prototype components (hardware & software) 		
Educa	ation		
 Summer schools Tutorials Prizes for post-graduate work (Ph.D. / M.Sc.) in Cognitive Systems 	 Model curricula for cognitive systems Textbook on cognitive systems Courseware for constituent areas Annotated bibliography of publications on cognitive systems 		

Note: attendance at a meeting does not constitute a contribution that satisfies the requirements of the Membership Agreement; a contribution should be of interest to other members and also be in a form that can be placed on the euCognition website.

Claiming Costs



Request for Reimbursement of Costs

Please read the attached guidelines before completing this form.

NAME OF PERSON MAKING CLAIM:		
NAME OF MEMBER (IF DIFFEREN	NAME OF MEMBER (IF DIFFERENT FROM ABOVE):	
MEMBERSHIP NUMBER:		
ADDRESS:		
SUMMARY OF CLAIM: (SPECIFY DETAILS ON PAGE 2)	Travel Costs (€): Other Costs (€): Total Costs (€):	



Guidelines for Submitting a Request for Reimbursement of Costs

1. Currency

All costs will be reimbursed in euro and all claims must be in euro. The relevant exchange rate must be shown where appropriate. You should use the exchange rate for the day the costs were incurred. Official euro exchange rates for any given date can be found in the Official Journal of the European Union (see the first item in the 'C-Information and notices' series).

http://europa.eu.int/eur-lex/lex/JOIndex.do?ihmlang=en

Exchange rates are published daily by the ECB:

http://www.ecb.int/stats/exchange/eurofxref/html/index.en.html



2. Eligible Costs

This form is to be used only for reimbursement of travel and other allowable costs. It is not to be used for labour costs which can only be reimbursed to contractors by completing an annual Financial Statement (Form C), and to sub-contractors by submitting an invoice for services.

No costs will be reimbursed unless the member has completed, signed, and submitted the Membership Agreement. Costs incurred before membership comes into force are not eligible for reimbursement.

Unless specified otherwise by the Network Coordinator, all costs must have prior written approval.



3. Procedure for Claiming Travel and Other Allowable Costs

Travel and other allowable costs may be claimed by completing this claim form. All claims must be accompanied by appropriate supporting documentation (original receipts, paid invoices, *etc.*). Please submit receipts in a form that makes photocopying easy (*e.g.* by pasting them to an A4 sheet of paper).

3.1 Travels Costs

Travel costs relate to transportation, accommodation, and subsistence expenses incurred in connection with an euCognition-related trip, such as attendance at the six-monthly network meeting, visiting a member site as part of a Network Action or as part of an area coordination meeting. In this respect, the following guidelines apply:

- The maximum cost per trip per member is €1000 (to include all travel, subsistence, and accommodation; additional funding may be made available in exceptional circumstances subject to prior written approval).
- The maximum allowable subsistence rate per day is the same as the normal Commission allowance of €150 per day and subject to the same rules (see below).
- Members may send delegates to meetings if they are unable to attend.



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Notes on Subsistence

A daily subsistence allowance may be claimed, depending on the duration of the trip, as follows:

- 1 day trip, destination < 50km from place of origin: €75.
- 1 day trip, destination > 50km from place of origin: €150.
- 2 day trip (*i.e.* one overnight stay): €150.
- Each additional day / overnight stay: €150.

Applying for Network Action funding



Network Action Proposal

Title:	
Membership number(s)	
Member name(s)	
Member institute/company name(s)	
Goals of the action	
Principal activity to which it contributes Outreach Scientific Outlook Education	
Concrete outcomes of the action	
Effort in person-days that will be charged to the Network Action (if any)	
Expected start and duration in months	
The requested funding, under the following headings: • Travel Costs • Other Costs (check with the Network Coordinator if you aren't sure about eligibility of these costs) • Labour Costs (identify the number of person-days and the rate per day).	
Please identify any other sources of funding that contribute to this Action	



Network Actions

- 2-1: Student Support for Inaugural Meeting
 - Fred Cummins, University College Dublin
 - Up to 20 travel grants for PhD student
 - €8,000 (€400 per student, max.)
- 17-1: AISB '06 Symposium: Architecture of Brain and Mind
 - Aaron Sloman, Birmingham University
 - Travel costs for 10 speakers
 - €10,610
- 68-1: Neuro/Psycho Extension to CVOnline
 - Robert Fisher, University of Edinburgh
 - Introductory neurophysiology of the human vision system
 - Introductory psychophysics of human vision system
 - €4,000



Network Actions

- Every action
 - (meeting, student exchange, tutorial, ...)
- Must have a concrete output in a persistent form
 - (document, video, commentary, ...)
- Archived on the eCognition website
- Reimbursement of costs conditional on submission

Becoming a Contractor



Appendix I: Admission of New Contractors

The following is extracted from Annex I to the euCognition contract, p. 16, a copy of which is available on the euCognition website at <u>www.eucognition.org</u>.

Admission of New Contractors

Members are not obliged to become a party to the Contract. However, any member wishing to become a contractor may do so at any point in the lifetime of the project. To become a contractor after the contract has come into force, the member completes Form B - REQUEST FOR ACCESSION OF A NEW CONTRACTOR TO THE CONTRACT (this is a part of the model contract) and submits three signed copies to the Coordinator together with two enclosures:

- 1) Contract Preparation Form (CPF) duly completed and signed by the new contractor.
- 2) Modified Annex I to the contract describing the work to be performed by the new contractor: this is simply the specification of the contribution the member committed to making in the original membership application form (see Section Special Conditions for Membership of euCognition above).

Any member that becomes a contractor undertakes all the responsibilities of a contractor, including the requirement to produce an audit certificate for all costs incurred. Note that under Special Clause 39 of the Contract, an audit certificate is not required until the end of the contract if the total amount of costs to be claimed is less than €150,000.

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Call for Proposals for Advanced Robotics

Address 🕘 http://www.cordis.lu/isl	t/cognition/calls.htm	💌 ラ Go 👘 Norton AntiVirus 😵
🗏 CORDIS / ISTweb / Direct	torate E / Cognition / Calls	Important Legal Notice
Info	ormation Society Technologies	
Information Society Technologies ISTw	eb Quick Links 💟 💁	Search ISTweb Search Search
	😮 About IST 🌣 Work Programme 1	🕦 Calls 🏦 Publications 🗣 FAQ 💱 Site Map 🚢 Tools
Directorate E - Content		
Unit E5 - Cognition		
Home	Calls	
Strategic Objectives	Open calls	
Calls Projects	Call for Proposals for Advanced Robotics	
Documents & News Publications Events	The EU's IST programme for research and development has pu on 22nd December 2005 with a closing date 25th April 2006. Fu 2005-IST-6. Contact points in the European Commission are Cognition unit.	Il details can be found here under the Call identifier FP6-
Contacts Project participants	Work Programme Extract	
CogSys Cognitive Systems	IST Strategic Objective 2.6.1: Advanced Robotics Objectives	
	The objective is to address some of the key challenges for the	a paradigm shift of robotic equipments in their evolution

The objective is to address some of the key challenges for the paradigm shift of robotic equipments in their evolution from a specific industrial technology to a broad enabler for a wide range of products and services that are entering the consumer, home and entertainment markets. The work will address the development of more intelligent, flexible, costeffective, modular, safe, dependable, robust and user-driven robot systems. This will pave the way to the future massive introduction of robots in everyday human environments and their close cooperation with people. As robots are moving out of the shop-floor, robot technologies should be able to couple further the world of information and