

Network Action Proposal

Title:	80 days research visit at the ASLAB, Universidad Politécnica de Madrid, Spain
Membership number(s)	146
Member name(s)	Dr. Xabier E. Barandiaran
Member institute/company name(s)	University of the Basque Country
Goals of the action	<ul style="list-style-type: none"> • To advance on the theoretical integration of the cognitive robotic projects associated with the ASLAB group (including the ICEA project that is part of the euCognition network) • To operationalize in terms of dynamical systems and control theory basic cognitive concepts, in particular the notions of agential <i>identity</i>, <i>cognitive/mental life</i>, <i>normativity</i>. • To analyse in detail an evolutionary robotic simulation model that satisfies a minimally cognitive task, making use of dynamical system theory and information measurements of causality along dynamical processes.
Principal activity to which it contributes <ul style="list-style-type: none"> ○ Community Outreach ○ Scientific Outlook ○ Education & Training 	<p><i>Scientific Outlook:</i> the project will contribute to the theoretical naturalized grounding of cognitive robotics at the intersection between control engineering and philosophy of biology and mind</p>
Concrete outcomes of the action (at least one of which should be material suitable for publication on the euCognition website)	<ul style="list-style-type: none"> • A paper to be published at one of the following journals: <i>Biosystems</i>, <i>Adaptive Behavior</i>, <i>Artificial Life</i>, <i>Mind & Machines</i> or <i>Cognition</i>. • A short glossary of operationalized concepts used in cognitive robotics: agent, cognitive/mental life, behaviour, norm, identity, action, perception, etc. • Two seminars: the first one of a theoretical nature analysing the biological grounding of a number of key concepts for cognitive robotics, the second one more technically articulated and illustrating the operational definition of the concepts on two robotic models. • Briefing of the developed research for euCognition • All outcomes will be made available at the euCognition website
Effort in person-days that will be charged to the Network Action (if any)	
Expected start and duration in months	From the 1 st September to the 30 th October + from the 1 st December to the 20 th December. (I got a grant to visit the KLI during full November)
The requested funding, under the following headings: <ul style="list-style-type: none"> ○ 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). 	<p>Subsistence Costs for staff visit: 150€ per day for the first 10 days + 75€ per day thereafter per 70 days = 1500+5250 = 6750€</p>
Please identify any other sources of funding that contribute to this Action (actions to support events such as workshop and conferences should include an outline budget identifying the total cost)	

Workshops: *official euCognition event*
(yes/no & maximum number of members that
can be accommodated)