

Network Action Proposal

Title:	Short-Term Visit of Toshio Inui to CNRS/University of Lyon2
Membership number(s)	9
Member name(s)	Peter Ford Dominey
Member institute/company name(s)	CNRS/University of Lyon2
Goals of the action	The goal of this NA is to enable a short focused visit of Professor Toshio Inui, Kyoto University, to the NCRM lab of Peter Dominey at the CNRS/University of Lyon2. The general purpose of the visit is to develop a sentence processing model for English and Japanese which is informed by recent fMRI results on human sentence processing, and which will be appropriate for application to multi-lingual human-robot interaction. Dominey and Inui have published a paper in the J Cog Neuroscience together, but have no formal, funded collaboration. Thus part of the goal of the NA is also to solidify the interaction in the context of future funding opportunities.
Principal activity to which it contributes <ul style="list-style-type: none"> o Community Outreach o Scientific Outlook o Education & Training 	Community Outreach: Short-term exchange/visits of research staff
Concrete outcomes of the action (at least one of which should be material suitable for publication on the euCognition website)	(1) An analysis of how recent fMRI data from the Inui lab in Kyoto can (or cannot) be accounted for by the grammatical construction processing model developed by Dominey, Hoen & Inui (2006), and a specification of potential modifications necessary to the model. This neurophysiologically informed sentence processing model will be documented on the euCog web site. (2) Detailed analysis of the mappings between conceptual representation of meaning in the context of goal directed action, and the corresponding linguistic forms in English and Japanese. The result of this will be an extension of the 2006 model that will allow the use of English and Japanese in a single sentence processing system that will be employed in the context of multiagent human-robot interaction. This will contribute to a robotics and/or human-robot interaction journal or conference paper and a corresponding white paper for the euCognition web site.
Effort in person-days that will be charged to the Network Action (if any)	
Expected start and duration in months	4 day meeting October 3-6
The requested funding, under the following headings: <ul style="list-style-type: none"> o Travel Costs 	Travel costs: 600 Euros
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)	This is to accommodate expenses not covered by the CNRS/University of Lyon2.