

Network Action Proposal

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| Title: | Support of student Martin Peniak for research on autonomous robot exploration in unknown terrain |
| Membership number(s) | 97 |
| Member name(s) | Prof. Angelo Cangelosi |
| Member institute/company name(s) | University of Plymouth |
| Goals of the action | <p>- <i>To support for 5 months the follow-up research of student Martin Peniak in Cangelosi's Adaptive Behaviour and Cognition lab.</i></p> <p>Martin Peniak, a citizen of the Slovak Republic, is currently developing for his final year project a new computer model of the Mars robot "Rover" utilizing the physics simulator ODE Open Dynamics Engine. During this research period, starting at the end of his final year project, Martin will continue his work by exploiting the robot simulator he has developed for new research in autonomous robots. In particular he will use this new simulator for new studies on the evolution of autonomous exploration capabilities in unknown terrains. Through his work at the University of Plymouth, Martin will acquire new research skills on artificial life modeling for autonomous robots, and interact with other staff and students in Plymouth working on models of communication in cognitive agents.</p> <p>Martin is a self-funded student and has no other bursaries to cover his stay in the UK.</p> |
| Principal activity to which it contributes <ul style="list-style-type: none"> o Community Outreach | Community Outreach: <ul style="list-style-type: none"> - Exchange visit |
| Concrete outcomes of the action | <p>The action/visit will result in:</p> <ul style="list-style-type: none"> - Research experience for Martin Peniak to continue the work started in his final year project in preparation for application for PhD studentships (including one at Plymouth University) - explore new area of application of autonomous robot research, e.g. exploitation of new model of Rover robot in unknown terrains - at least one <u>state-of-the-art-survey/position paper on the evolution of autonomous exploratory capability in unknown terrains</u> to be published in the euCognition website. This will also be submitted for journal/conference publication |
| Effort in person-days that will be charged to the Network Action (if any) | N/A |
| Expected start and duration in months | 1/5/2008 (5 months) |
| The requested funding, under the following headings: <ul style="list-style-type: none"> o Travel Costs o Other Costs (check with the Network | € 5000 support for accommodation and subsistence during stay in Plymouth (1000 euro per month x 5 months) |

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| <p>Coordinator if you aren't sure about eligibility of these costs)</p> <ul style="list-style-type: none"> ○ Labour Costs (identify the number of person-days and the rate per day). | <p>€ 5000 TOTAL REQUESTED</p> |
| <p>Please identify any other sources of funding that contribute to this Action</p> | <p>The University of Plymouth will provide funding for Martin Peniak's participation to a conference to present joint work and will fund the GBP 625 internal charge to provide computing and office facilities to visiting student.</p> |