CFP: 6th Workshop on Nonmonotonic Reasoning, Action, and Change − August 1, 2005

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CALL FOR PAPERS / PARTICIPATION
WORKSHOP AT IJCAI−05
The Sixth Workshop on Nonmonotonic Reasoning, Action, and Change
August 1, 2005, Edinburgh

URL: http://www.cse.unsw.edu.au/~nrac05/

Workshop Overview
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The biannual Workshop on Nonmonotonic Reasoning, Action, and Change (NRAC) was first established in 1995. Since its inception it has been held in conjunction with the International Joint Conference on Artificial Intelligence (IJCAI).

An intelligent agent exploring a rich, dynamic world needs cognitive capabilities in addition to basic functionalities for perception and reaction. The abilities to reason nonmonotonically, to reason about actions, and to change one's beliefs, have been identified as fundamental high−level cognitive functions necessary for common sense. Research in all three areas has made significant progress during the last two decades of the past century. It is, however, crucial to bear in mind the common goal of designing intelligent agents. Researchers should be aware of advances in all three fields since often advances in one field can be translated into advances in another. Many deep relationships have already been established. This workshop has the specific aim of promoting cross−fertilization. The interaction fostered by the biannual NRAC has helped to facilitate solutions to the frame problem, ramification problem, and other crucial issues on the research agenda.

Much recent research into reasoning about actions has been devoted to the design and implementation of languages and systems for Cognitive Robotics. Successful case studies demonstrate the applicability of these results for furnishing autonomous robots with high−level cognitive

capabilities that enable plan−oriented behavior. Advancing the field of Cognitive Robotics, current research in reasoning about actions focuses on two crucial aspects of robots acting in open, real−world environments: Re