

Preface

The Third International Cognitive Robotics Workshop (CogRob2002) was held July 28, 2002 in Edmonton, Alberta, Canada. It was sponsored by the American Association for Artificial Intelligence, and held in conjunction with AAAI 2002, the Eighteenth National Conference on Artificial Intelligence. This workshop was the third in a series of successful workshops addressing issues related to the growing field of cognitive robotics. CogRob2002 followed the very successful AAAI Fall Symposium 1998 on Cognitive Robotics held in Orlando and the Second International Cognitive Robotics Workshop, held in conjunction with ECAI-2000.

Research in robotics has traditionally emphasized low-level sensing and control tasks including sensory processing, path planning, and manipulator design and control. In contrast, research in cognitive robotics is concerned with endowing robots and software agents with higher level cognitive functions that enable them to reason, act and perceive in changing, incompletely known, and unpredictable environments. Such robots must, for example, be able to reason about goals, actions, when to perceive and what to look for, the cognitive states of other agents, time, collaborative task execution, etc. In short, cognitive robotics is concerned with integrating reasoning, perception and action within a uniform theoretical and implementation framework.

This workshop brought together researchers involved in diverse aspects of the theory and implementation of cognitive robots, to discuss current work and future directions. We would like to thank the CogRob2002 program committee for their hard work in helping make this workshop a success. We would also like to thank our invited speakers for their participation.

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