Lecture Notes in Artificial Intelligence

Subseries of Lecture Notes in Computer Science

Edited by J. Siekmann

Lecture Notes in Computer Science

Edited by G. Goos and J. Hartmanis

Editorial

Artificial Intelligence has become a major discipline under the roof of Computer Science. This is also reflected by a growing number of titles devoted to this fast developing field to be published in our Lecture Notes in Computer Science. To make these volumes immediately visible we have decided to distinguish them by a special cover as Lecture Notes in Artificial Intelligence, constituting a subseries of the Lecture Notes in Computer Science. This subseries is edited by an Editorial Board of experts from all areas of AI, chaired by Jörg Siekmann, who are looking forward to consider further AI monographs and proceedings of high scientific quality for publication.

We hope that the constitution of this subseries will be well accepted by the audience of the Lecture Notes in Computer Science, and we feel confident that the subseries will be recognized as an outstanding opportunity for publication by authors and editors of the AI community.

Editors and publisher

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437

D. Kumar (Ed.)

Current Trends in SNePS – Semantic Network Processing System

First Annual SNePS Workshop
Buffalo, NY, November 13, 1989
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Preface

The First Annual SNePS Workshop was held on November 13, 1989, at the State University of New York at Buffalo. SNePS is a state-of-the-art knowledge representation and reasoning system used for Artificial Intelligence and Cognitive Science research. It is a semantic network based system designed by members of the SNePS Research Group in conjunction with and under the supervision of Dr. Stuart C. Shapiro and Dr. William J. Rapaport. SNePS 2.1, an implementation of SNePS in Common Lisp, runs on several computers and is distributed under license from the Research Foundation of the State University of New York. The aims of this workshop were to bring together Artificial Intelligence researchers working with (or interested in) SNePS. Twelve research papers were presented by people from seven different research sites in the United States and abroad. The papers were of top quality and covered several areas of ongoing AI research displaying the versatility of SNePS as an AI research tool. The presentations were interspersed with several discussion sessions concerning achievements of the participants as a collective SNePS community and were helpful in outlining future research directions. This volume contains all the papers presented at the workshop.

Attendance at the workshop was by invitation only. It was attended by 46 participants from 14 different organizations and three different countries. The group from Instituto Superior Téchnico, University of Lisbon, is actively developing SNePS and its environments, and they brought new implementations of several systems, including a SNePS based theorem prover and a knowledge debugger. These are currently being incorporated in SNePS 2.1 and will be included in future distributions.

This workshop was sponsored by the SNePS Research Group and the SUNY at Buffalo Center for Cognitive Science.

Many thanks to the authors and participants for making the workshop a great success. Thanks to Sy Ali and Hans Chalupsky for taking charge of the various organizational chores. Thanks also to Eloise Benzel, Sally Elder, Gloria Koontz, Leslie Russo, and Lynda Spahr for providing administrative support. And thanks to Dr. William Rapaport and the SUNY at Buffalo Center for Cognitive Science for providing funding for the printing of an early version of these proceedings as a Department of Computer Science, SUNY at Buffalo, technical report. This volume contains revised and updated versions of the papers in the technical report.

Deepak Kumar
Buffalo, March 1990

Contents