Lecture Notes in Artificial Intelligence 1093

Subseries of Lecture Notes in Computer Science
Edited by J. G. Carbonell and J. Siekmann

Lecture Notes in Computer Science
Edited by G. Goos, J. Hartmanis and J. van Leeuwen

Leo Dorst Michiel van Lambalgen
Frans Voorbraak (Eds.)

Reasoning with Uncertainty in Robotics

International Workshop, RUR '95
Amsterdam, The Netherlands
December 4-6, 1995
Proceedings

Springer

Series Editors
Jaime G. Carbonell, Carnegie Mellon University, Pittsburgh, PA, USA
Jörg Siekmann, University of Saarland, Saarbrücken, Germany

Volume Editors

Leo Dorst
University of Amsterdam, Dept. of Computer Science, Physics and Astronomy
Autonomous Systems Group
Kruislaan 403, 1098 SJ Amsterdam, The Netherlands

Michiel van Lambalgen
Frans Voorbraak
University of Amsterdam, Dept. of Computer Science, Physics and Astronomy
Logic and Theoretical Computer Science
Plantage Muidergracht 24, 1018 TV Amsterdam, The Netherlands

Cataloging-in-Publication Data applied for

Die Deutsche Bibliothek - CIP-Einheitsaufnahme

Reasoning with uncertainty in robotics : international workshop ; proceedings / RUR '95, Amsterdam, The Netherlands, December 4 - 6, 1995. Leo Dorst ... (ed.). - Berlin ; Heidelberg ; New York ; Barcelona ; Budapest ; Hong Kong ; London ; Milan ; Paris ; Santa Clara ; Singapore ; Tokyo : Springer, 1996
(Lecture notes in computer science ; Vol. 1093)
ISBN 3-540-61376-5
NE: Dorst, Leo [Hrsg.]; RUR <1995, Amsterdam>; GT

CR Subject Classification (1991): I.2.9, I.2.3, I.2.10, I.2.11, I.5.1

ISBN 3-540-61376-5 Springer-Verlag Berlin Heidelberg New York

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Printed in Germany

Typesetting: Camera ready by author
SPIN 10513178 06/3142 – 5 4 3 2 1 0 Printed on acid-free paper

Preface

This volume contains the (revised) papers presented at the international workshop Reasoning with Uncertainty in Robotics, held on December 4-6, 1995, at the University of Amsterdam, The Netherlands. The programme of the workshop consisted of 2 tutorials, 6 invited talks, 13 presentations of accepted papers, and a forum discussion.

All presented papers are included in this volume, with the exception of 'Reasoning about noisy sensors (and effectors) in the situation calculus', by F. Bacchus, J. Y. Halpern, and H. J. Levesque, since this paper has already been published in the proceedings of IJCAI95. The paper 'An evidential approach to probabilistic map building', by D. Pagac, E. Nebot, and H. Durrant-Whyte does not correspond to the invited talk of Durrant-Whyte, but is included because of the interest it generated during the workshop. Each paper is followed by a transcript (based on recordings) of the discussion ensuing from the author's presentation. A summary of the forum discussion is given in the introduction by the editors.

The programme committee for the workshop was chaired by Frans Groen (University of Amsterdam, The Netherlands) and further consisted of James L. Crowley (IMAG-LIFIA, Grenoble, France), Leo Dorst (University of Amsterdam, The Netherlands), Hugh Durrant-Whyte (University of Sydney, Australia), Alberto Elfes (Automation and Software Systems Institute, Campinas, Brazil), Robert Hummel (Courant Institute of Mathematical Sciences, New York, USA), Leslie Pack Kaelbling (Brown University, Providence, USA), Michiel van Lambalgen (University of Amsterdam, The Netherlands), and Frans Voorbraak (University of Amsterdam, The Netherlands).

We gratefully acknowledge the reviewing work of the members of the programme committee, Thomas Kämpke (University of Ulm, Germany), and Erwin Prassler (University of Ulm, Germany), the support of Intelligent Autonomous Systems (IAS Society), and the financial support of

- PIONIER project Reasoning with Uncertainty, of the Netherlands Organization for Scientific Research (NWO)
- Advanced School for Computing and Imaging (ASCI)
- Royal Netherlands Academy of Sciences (KNAW)
- Institute for Logic, Language, and Computation (ILLC)

We thank Marco de Vries for taking care of local arrangements, and the participants for their contribution to the workshop.

March, 1996

Leo Dorst, Michiel van Lambalgen, Frans Voorbraak
Organizing Committee

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