

# Preface

Robotics is a highly interdisciplinary research topic, that requires integration of methods for mechanics, control engineering, signal processing, planning, graphics, human-computer interaction, real-time systems, applied mathematics, and software engineering to enable construction of fully operational systems. The diversity of topics needed to design, implement, and deploy such systems implies that it is almost impossible for individual teams to provide the critical mass required for such endeavours. To facilitate interaction and progress on sensor based intelligent robotics the organisation of inter-disciplinary workshops is necessary through which in-depth discussion can be used for cross dissemination between different disciplines.

The Dagstuhl foundation has organised a number of workshops on Modelling and Integration of Sensor Based Intelligent Robot Systems. The Dagstuhl seminars are all organised over a full week in a beautiful setting in the Saarland in Germany. The setting provides an ideal environment for in-depth presentations and rich interactions between the participants. This volume contains the papers presented during the third workshop held over the period September 28 - October 2, 1998.

All papers have been reviewed by one-three reviewers over a relatively short period. We wish to thank all the reviewers for their invaluable help in making this a high quality selection of papers.

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