

Lecture Notes in Computer Science

Edited by G. Goos and J. Hartmanis

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Bruce R. Donald

**Error Detection
and Recovery in Robotics**



Springer-Verlag Berlin Heidelberg GmbH

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Error Detection And Recovery In Robotics:

Error Detection and Recovery in Robotics Bruce R. Donald, 1987 *Error Detection and Recovery for Robot Motion Planning with Uncertainty* Bruce Randall Donald, MASSACHUSETTS INST OF TECH CAMBRIDGE ARTIFICIAL INTELLIGENCE LAB., Massachusetts Institute of Technology. Artificial Intelligence Laboratory, 1987 Robots must plan and execute tasks in the presence of uncertainty Uncertainty arises from sensing errors controls errors and uncertainty in the geometry of the environment The last which is called model error has received little previous attention This document presents a framework for computing motion strategies that are guaranteed to succeed in the presence of all three kinds of uncertainty The motion strategies comprise sensor based gross motions complaint motions and simple pushing motions It is not always possible to find plans that are guaranteed to succeed For example if tolerancing errors render an assembly infeasible the plan executor should stop and signal failure In such cases the insistence on guaranteed success is too restrictive For this reason Error Detection and Recovery EDR strategies there is no possibility that the plan will fail without the executor realizing it The EDR framework fills a gap when guaranteed plans cannot be found or do not exist it provides a technology for constructing plans that might work but fail in a reasonable way when they cannot Keywords Robotics Mobility

Algorithms for Robotic Motion and Manipulation Jean-Paul Laumond, Mark Overmars, 1997-02-11 This volume deals with core problems in robotics like motion planning sensor based planning manipulation and assembly planning It also discusses the application of robotics algorithms in other domains such as molecular modeling computer graphics and image analysis Topics Include Planning Sensor Based Motion Planning Control and Motion Robotics John Baillieul, 1990 Contains the six lectures of an AMS short course in robotics in Louisville Kentucky January 1990 some mathematical aspects of robotics manipulator kinematics the resolution of kinematic redundancy grasping and manipulation using multifingered robot hands planning and executing robot assembly *Library of Congress Subject Headings* Library of Congress. Cataloging Policy and Support Office, 2009 *Library of Congress Subject Headings* Library of Congress, 2009 **Planning**

Algorithms Steven M. LaValle, 2006-05-29 Planning algorithms are impacting technical disciplines and industries around the world including robotics computer aided design manufacturing computer graphics aerospace applications drug design and protein folding This coherent and comprehensive book unifies material from several sources including robotics control theory artificial intelligence and algorithms The treatment is centered on robot motion planning but integrates material on planning in discrete spaces A major part of the book is devoted to planning under uncertainty including decision theory Markov decision processes and information spaces which are the configuration spaces of all sensor based planning problems The last part of the book delves into planning under differential constraints that arise when automating the motions of virtually any mechanical system This text and reference is intended for students engineers and researchers in robotics artificial intelligence and control theory as well as computer graphics algorithms and computational biology Expert Systems and

Robotics Timothy Jordanides, Bruce Torby, 2012-12-06 The areas of intelligent machines or robotic systems is of enormous technological and economic interest as competition in productivity intensifies This volume gives the proceedings of the 1990 Advanced Study Institute on Expert Systems and Robotics It presents research work already accomplished in the analytical theory of intelligent machines work in progress and of current interest and some specific examples for further research The papers in the volume range from the most theoretical to some descriptions of very practical working robots The papers are organized into sections on vision and image analysis robotic sensory systems software hardware and system simulation robot control applications and reports of group meetings *Systems Collaboration and Integration* Chin-Yin Huang, Sang Won Yoon, 2023-10-17 This book is a groundbreaking exploration of the historical and contemporary challenges in systems collaboration and integration This exceptional book delves into engineering design planning control and management offering invaluable insights into the evolving nature of systems and networks In an era defined by the ongoing cyber and digital transformation coupled with artificial intelligence and machine learning this book offers insights into the future of systems collaboration and integration Over the past three decades the PRISM Center and its affiliated PRISM Global Research Network PGRN have spearheaded pioneering theories technologies and applications in the realm of systems collaboration and integration Their research driven by the motto Knowledge through information Wisdom through collaboration has yielded remarkable advancements Those achievements and papers presented and updated by the PGRN scholars in the 26th ICPR are included in this book **Robotics** Appuu Kuttan, 2013-12-30 Robotics is an applied engineering science that has been referred to as a combination of machine tool technology and computer science It includes diverse fields such as machine design control theory microelectronics computer programming artificial intelligence human factors and production theory The present book provides a comprehensive introduction to robotics The book covers a fair amount of kinematics and dynamics of the robots It also covers the sensors and actuators used in robotics system This book will be useful for mechanical electrical electronics and computer engineering students Key Features Latest technological developments in robotics Robotic classifications robot programming robotic sensors and actuators Kinematics and dynamic analysis of the Robot Modular systems in robotics Advances in Robotics systems Fuzzy logic control in Robotic systems Biped robot Bio mimetic robot Robot safety and layout Robot calibration Numerical examples Relative merits and demerits of different robot systems **Technology 2002**, 1993 includes the 6 papers presented by researchers at JPL of the California Institute of Technology at the Technology 2000 Conference Includes integrated information retrieval and document management system macro micro robot for precise force applications a fault tolerant intelligent robot control system constraint checking during error recovery the data egg a new solution to text entry barriers and a multi beam range imager for autonomous operations *Robot Technology and Applications* Ulrich Rembold, 2020-08-11 Introduces designers to hardware and software tools necessary for planning laying out and building advanced robot based manufacturing cells

surveying the available technology for creating innovative machines suitable to individual needs Considers assembly system simulation task oriented programm *Springer Handbook of Automation* Shimon Y. Nof,2023-06-16 This handbook incorporates new developments in automation It also presents a widespread and well structured conglomeration of new emerging application areas such as medical systems and health transportation security and maintenance service construction and retail as well as production or logistics The handbook is not only an ideal resource for automation experts but also for people new to this expanding field Library of Congress Subject Headings Library of Congress. Office for Subject Cataloging Policy,1991 Artificial Immune Systems Pietro Lio,Giuseppe Nicosia,Thomas Stibor,2011-07-06 This book constitutes the refereed proceedings of the 10th International Conference on Artificial Immune Systems ICARIS 2011 held in Cambridge UK in July 2011 The 37 revised full papers were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on immunoinformatics and computational immunology theory of immunological computation and applied immunological computation **Computer Science Handbook** Allen B. Tucker,2004-06-28 When you think about how far and fast computer science has progressed in recent years it s not hard to conclude that a seven year old handbook may fall a little short of the kind of reference today s computer scientists software engineers and IT professionals need With a broadened scope more emphasis on applied computing and more than 70 chap **Intelligent Systems and Robotics** George Zobrist,C Y Ho,2000-03-09 Intelligent Systems and Robotics focuses on new developments in robotics and intelligent systems and provides insight guidance and specific techniques vital to those concerned with the design and implementation of robotics and intelligent system applications Intelligent Systems and Robotics presents information on a 3 D vision for robots and inte **Intelligent Control and Adaptive Systems** ,1990 **Robotics, Mechatronics and Manufacturing Systems** T. Takamori,K. Tsuchiya,2012-12-02 One of the most important problems in the field of engineering and technology is the development of so called intelligent systems which can perform various intellectual tasks This book is dedicated to the current progress of research in this vast field and specifically explores the topics of robotics mechatronics and manufacturing systems **Applications Of Ai, Machine Vision And Robotics** Kim L Boyer,Horst Bunke,Louise Stark,1995-02-28 This text features a broad array of research efforts in computer vision including low level processing perceptual organization object recognition and active vision The volume s nine papers specifically report on topics such as sensor confidence low level feature extraction schemes non parametric multi scale curve smoothing integration of geometric and non geometric attributes for object recognition design criteria for a four degree of freedom robot head a real time vision system based on control of visual attention and a behavior based active eye vision system The scope of the book provides an excellent sample of current concepts examples and applications from multiple areas of computer vision

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