

ROBIN R. MURPHY

# <u>An Introduction To Ai Robotics Intelligent Robotics And Autonomous Agents</u>

**M** Walker

## An Introduction To Ai Robotics Intelligent Robotics And Autonomous Agents:

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Roland Siegwart, Illah Reza Nourbakhsh, 2004 An overview of all aspects of mobility in robotics including software and hardware design considerations related technologies and algorithmic techniques Autonomous Robots George A. Bekey, 2005-05-20 An introduction to the science and practice of autonomous robots that reviews over 300 current systems and examines the underlying technology Autonomous robots are intelligent machines capable of performing tasks in the world by themselves without explicit human control Examples range from autonomous helicopters to Roomba the robot vacuum cleaner In this book George Bekey offers an introduction to the science and practice of autonomous robots that can be used both in the classroom and as a reference for industry professionals. He surveys the hardware implementations of more than 300 current systems reviews some of their application areas and examines the underlying technology including control architectures learning manipulation grasping navigation and mapping Living systems can be considered the prototypes of autonomous systems and Bekey explores the biological inspiration that forms the basis of many recent developments in robotics He also discusses robot control issues and the design of control architectures After an overview of the field that introduces some of its fundamental concepts the book presents background material on hardware control from both biological and engineering perspectives software architecture and robot intelligence It then examines a broad range of implementations and applications including locomotion wheeled legged flying swimming and crawling robots manipulation both arms and hands localization navigation and mapping The many case studies and specific applications include robots built for research industry and the military among them underwater robotic vehicles walking machines with four six and eight legs and the famous humanoid robots Cog Kismet ASIMO and QRIO The book concludes with reflections on the future of robotics the potential benefits as well as the possible dangers that may arise from large numbers of increasingly intelligent and autonomous robots The CRC Handbook of Mechanical Engineering D. Yogi Goswami, 2004-09-29 The second edition of this standard setting handbook provides and all encompassing reference for the practicing engineer in industry government and academia with relevant background and up to date information on the most important topics of modern mechanical engineering These topics include modern manufacturing and design robotics computer engineering environmental engineering economics patent law and communication information systems. The final chapter and appendix provide information regarding physical properties and mathematical and computational methods New topics include nanotechnology MEMS electronic packaging global climate change electric and hybrid vehicles and bioengineering The Art of Agent-oriented Modeling Leon Sterling, Kuldar Taveter, 2009 The Art of Agent Oriented Modeling is an introduction to agent oriented software development for students and for software developers who are interested in learning about new software engineering techniques Foreword Disaster Robotics Robin R. Murphy, 2014-02-14 A comprehensive authoritative and accessible reference for disaster robotics that covers theory specific deployments and ground air and marine modalities This book offers the definitive guide to the theory and practice of disaster robotics It can serve as an

introduction for researchers and technologists a reference for emergency managers and a textbook in field robotics Written by a pioneering researcher in the field who has herself participated in fifteen deployments of robots in disaster response and recovery the book covers theory and practice the history of the field and specific missions After a broad overview of rescue robotics in the context of emergency informatics the book provides a chronological summary and formal analysis of the thirty four documented deployments of robots to disasters that include the 2001 collapse of the World Trade Center Hurricane Katrina the 2010 Haiti earthquake the Deepwater Horizon oil spill the 2011 Japanese earthquake and tsunami and numerous mining accidents It then examines disaster robotics in the typical robot modalities of ground air and marine addressing such topics as robot types missions and tasks and selection heuristics for each modality Finally the book discusses types of fieldwork providing practical advice on matters that include collecting data and collaborating with emergency professionals The field of disaster robotics has lacked a comprehensive overview This book by a leader in the field offering a unique combination of the theoretical and the practical fills the gap Unmanned Systems of World Wars I and II H. 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The last section includes research articles on development of architectures and control systems Bio-Inspired Artificial Intelligence Dario Floreano, Claudio Mattiussi, 2008-08-22 A comprehensive introduction to new approaches in artificial intelligence and robotics that are inspired by self organizing biological processes and structures New approaches to artificial intelligence spring from the idea that intelligence emerges as much from cells bodies and societies as it does from evolution development and learning Traditionally artificial intelligence has been concerned with reproducing the abilities of human brains newer approaches take inspiration from a wider range of biological structures that that are capable of autonomous self organization Examples of these new approaches include evolutionary computation and evolutionary electronics artificial neural networks immune systems biorobotics and swarm intelligence to mention only a few This book offers a comprehensive introduction to the emerging field of biologically inspired artificial intelligence that can be used as an upper level text or as a reference for researchers Each chapter presents computational approaches inspired by a different biological system each begins with background information about the biological system and then proceeds to develop computational models that make use of biological concepts The chapters cover evolutionary computation and electronics cellular systems neural systems including neuromorphic engineering developmental systems immune systems behavioral systems including several approaches to robotics including behavior based bio mimetic epigenetic and evolutionary robots and collective systems including swarm robotics as well as cooperative and competitive co evolving systems Chapters end with a concluding overview and suggested reading

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