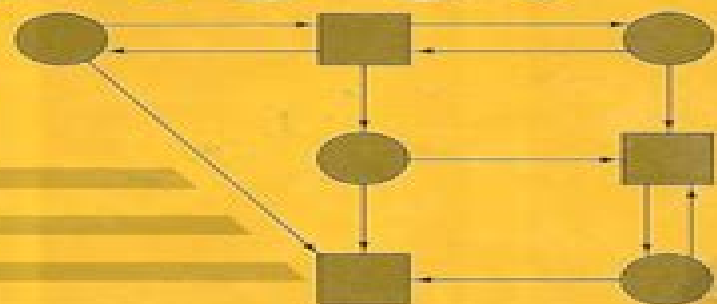


MATHEMATICAL METHODS FOR ARTIFICIAL INTELLIGENCE AND AUTONOMOUS SYSTEMS



EDWARD R. DOUGHERTY
CHARLES R. GIARDINA

Mathematical Methods For Artificial Intelligence And Autonomous Systems

Snehashish Chakraverty



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Mathematical Methods for Artificial Intelligence and Autonomous Systems Edward R. Dougherty, Charles R. Giardina, 1988-01-01

Mathematical Methods for Artificial Intelligence and Autonomous Systems Edward R. Dougherty, Charles Robert Giardina, 1988 *Mathematical Methods in Interdisciplinary Sciences* Snehashish Chakraverty, 2020-06-15 Brings mathematics to bear on your real world scientific problems Mathematical Methods in Interdisciplinary Sciences provides a practical and usable framework for bringing a mathematical approach to modelling real life scientific and technological problems The collection of chapters Dr Snehashish Chakraverty has provided describe in detail how to bring mathematics statistics and computational methods to the fore to solve even the most stubborn problems involving the intersection of multiple fields of study Graduate students postgraduate students researchers and professors will all benefit significantly from the author's clear approach to applied mathematics The book covers a wide range of interdisciplinary topics in which mathematics can be brought to bear on challenging problems requiring creative solutions Subjects include Structural static and vibration problems Heat conduction and diffusion problems Fluid dynamics problems The book also covers topics as diverse as soft computing and machine intelligence It concludes with examinations of various fields of application like infectious diseases autonomous car and monotone inclusion problems *Introduction to Intelligent and Autonomous Control* Panos J. Antsaklis, Kevin M. Passino, 1993 The area of intelligent control is a fusion of a number of research areas in engineering computer science and mathematics which has evolved from conventional control to enhance the existing nonlinear optimal adaptive and stochastic control methods Intelligent control techniques are currently being utilized for closed loop feedback control in space based applications manufacturing systems robotic systems avionic systems among others to improve system performance reliability and efficiency Overall the primary objective of intelligent control is to enhance the performance of the system to the extent that it achieves some level of autonomous control

Analysis and Simulation of Electrical and Computer Systems Nimisha Tiwari, Priya Sharma, Shalaka Tyagi, 2025-01-04 Analysis and Simulation of Electrical and Computer Systems the principles methodologies and computational techniques used to model analyze and simulate electrical and computer systems Topics such as circuit analysis signal processing control systems and embedded computing this book provides a comprehensive approach to system modeling using analytical and numerical methods It integrates theoretical foundations with practical simulation tools including MATLAB and SPICE to enhance problem solving and design efficiency Ideal for students researchers and engineers this book serves as a valuable resource for understanding and optimizing complex electrical and computer systems through simulation based analysis

Formal Concepts in Artificial Intelligence Rajjan Shinghal, 1992 An introduction to the logical and algorithmic concepts of artificial intelligence discussing automated reasoning the use of propositional and predicated logic proof strategies writing programs natural language processing expert systems and searching state space decompositions and trees **NASA**

Conference Publication United States. National Aeronautics and Space Administration,1977 Artificial Intelligence in Engineering Graham Winstanley,1991-02-18 Addresses the broad spectrum of engineering disciplines and introduces AI as a powerful engineering tool capable of providing effective and significant assistance in that domain The Cumulative Book Index ,1996 A world list of books in the English language **Application of Artificial Intelligence in Process Control** L. Boullart,A. Krijgsman,R. A. Vingerhoeds,1992 This book is the result of a united effort of six European universities to create an overall course on the application of artificial intelligence AI in process control The book includes an introduction to key areas including knowledge representation expert logic fuzzy logic neural network and object oriented based approaches in AI Part two covers the application to control engineering part three Real Time Issues part four CAD Systems and Expert Systems part five Intelligent Control and part six Supervisory Control Monitoring and Optimization **VTAC eGuide 2016** VTAC,2015-07-15 The VTAC eGuide is the Victorian Tertiary Admissions Centre s annual guide to application for tertiary study scholarships and special consideration in Victoria Australia The eGuide contains course listings and selection criteria for over 1 700 courses at 62 institutions including universities TAFE institutes and independent tertiary colleges

Multisensor Integration and Fusion for Intelligent Machines and Systems Ren C. Luo,Michael G. Kay,1995 There has been a growing interest during the 1990s in the use of multiple sensors to increase the capabilities of intelligent machines and systems This text is a compendium of some of the most important and influential work that has appeared in this area In addition it contains comprehensive introductory material and an extensive survey and review of related research The volume should be useful to everyone interested in the development of more intelligent machines and systems through the synergistic use of multiple sensors Computer and Information Sciences VI Mehmet Baray,Bülent Özgüç,1991 This volume contains the proceedings of the Sixth International Symposium on Computer and Information Sciences ISCIS VI organised by the Bilkent University in Ankara Turkey Topics addressed by contributing authors include Databases Object Oriented Systems Software Engineering Theoretical Computer Science Computer Networks Artificial Intelligence Parallel Processing Neural Networks Image Processing Computational Linguistics and Computer aided Learning Distributed Systems Operating Systems and Computer Graphics are also treated **An Introduction to Morphological Image Processing** Edward R. Dougherty,1992 Binary erosion and dilation Binary opening and closing Morphological processing of binary images Hit or miss transform Granulometries Gray scale morphology Gray scale morphological algorithms Bibliographic Guide to Education ,1988 Annual supplement to the Dictionary catalog of the Teachers College Library Columbia University and its 1st 3rd supplements **Image Algebra and Morphological Image Processing** ,1991 **Choice** ,1989 **MELECON '98, 9th Mediterranean Electrotechnical Conference** ,1998 *Proceedings of the IEEE Workshop on Real-Time Applications, New York, New York, May 13-14, 1993* ,1993 *Proceedings of the IEEE Workshop on Real-Time Applications* ,1993

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