

ENGINEERING INTELLIGENT SYSTEMS

Concepts, Theory and Applications



Robert M. Glorioso
Fernando C. Colón Osorio

Eng Intelligent Systems Concepts Theory

Jairo Viola, YangQuan Chen



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Engineering Intelligent Systems Robert M. Glorioso, Fernando C. Osorio, 1988-01-01 Engineering Intelligent Systems Robert M. Glorioso, Fernando C. Colón Osorio, 1980 Overview of intelligent systems that shows how current concepts techniques in engineering mathematics neurophysiology contribute to designing intelligent systems Covers computer vision robotics pattern recognition adaptive control intelligent systems design

The Psychology of Expertise Robert R. Hoffman, 2014-02-25 This volume investigates our ability to capture and then apply expertise In recent years expertise has come to be regarded as an increasingly valuable and surprisingly elusive resource Experts who were the sole active dispensers of certain kinds of knowledge in the days before AI have themselves become the objects of empirical inquiry in which their knowledge is elicited and studied by knowledge engineers experimental psychologists applied psychologists or other experts involved in the development of expert systems This book achieves a marriage between experimentalists applied scientists and theoreticians who deal with expertise It envisions the benefits to society of an advanced technology for capturing and disseminating the knowledge and skills of the best corporate managers the most seasoned pilots and the most renowned medical diagnosticians This book should be of interest to psychologists as well as to knowledge engineers who are out in the trenches developing expert systems and anyone pondering the nature of expertise and the question of how it can be elicited and studied scientifically The book s scope and the pivotal concepts that it elucidates and appraises as well as the extensive categorized bibliographies it includes make this volume a landmark in the field of expert systems and AI as well as the field of applied experimental psychology

Software Engineer's Reference Book John A McDermid, 2013-10-22 Software Engineer s Reference Book provides the fundamental principles and general approaches contemporary information and applications for developing the software of computer systems The book is comprised of three main parts an epilogue and a comprehensive index The first part covers the theory of computer science and relevant mathematics Topics under this section include logic set theory Turing machines theory of computation and computational complexity Part II is a discussion of software development methods techniques and technology primarily based around a conventional view of the software life cycle Topics discussed include methods such as CORE SSADM and SREM and formal methods including VDM and Z Attention is also given to other technical activities in the life cycle including testing and prototyping The final part describes the techniques and standards which are relevant in producing particular classes of application The text will be of great use to software engineers software project managers and students of computer science

Error Systems: Concepts, Theory and Applications Kaizhong

Guo,Shiyong Liu,2020-02-29 This book offers a new perspective and deeper understanding of complex socioeconomic systems and explores the laws and mechanisms of erring by revealing the system structure i e the context in which errors are imbedded It proposes a number of new concepts for the field of systems science concerning the forces affecting e g system structure subsystem structures and system elements Given its scope it offers an excellent reference book for researchers and other readers in the fields of systems science management science mathematics fuzzy logic and sets symbolic logic philosophy etc The book can also benefit researchers and practitioners in artificial intelligence and machine learning as various erring patterns can be identified by training intelligent machines with big data i e error cases and their logic helping to prevent or eliminate errors in a cost effective manner Modern Instrumentation G Silverman,H Silver,2024-11-01 Modern science and engineering relies heavily on understanding computer hardware and software in order to make effective use of these tools in the laboratory and industrial environments The authors of Modern Instrumentation A Computer Approach have succeeded in producing a highly readable source that will serve both newcomers to the field as well as experienced professionals Including both fundamentals and applications the book first describes the role of the computer in instrument systems and provides numerous practical examples The second part of the book explores specific software packages and their capabilities for applications such as instrument design and simulation data acquisition data processing and the potential of artificial intelligence in instrument design Because of the full integration of theory with practical applications of leading software packages this book is an extremely useful reference for those who use computer based instrument technology for data acquisition and who are involved with hardware or software development for laboratory and process control *Computer Integrated Electronics Manufacturing and Testing* Jack Arabian,2020-11-25 This informative book describes the computer integrated manufacturing and testing process as it relates to the electronics industry focusing on such important areas as printed wiring boards networking automatic assembly surface mount technology tape automated bonding bar coding and electro static discharge Treating both basic and advanced topics Computer Integrated Electronics Manufacturing and Testing covers specialized manufacturing processes examines the life cycle of a product from concept and design to manufacturing and testing through maintenance and field service studies the effects of group work ethics as a factor in the success equation considers the importance of product quality discusses Computer Integrated Manufacturing explores Artificial Intelligence and its relation to manufacturing contains end of chapter references charts over 100 photographs and detailed appendixes that list definitions abbreviations and industry buzz words plus more Timely comprehensive and highly practical the volume is an ideal resource for all engineers involved in computer integrated electronics manufacturing and testing Graph Theory for Operations Research and Management: Applications in Industrial Engineering Farahani, Reza Zanjirani,Miandoabchi, Elnaz,2012-12-31 While typically many approaches have been mainly mathematics focused graph theory has become a tool used by scientists researchers and engineers in using modeling

techniques to solve real world problems Graph Theory for Operations Research and Management Applications in Industrial Engineering presents traditional and contemporary applications of graph theory in the areas of industrial engineering management science and applied operations research This comprehensive collection of research introduces the useful basic concepts of graph theory in real world applications *Advances in Intelligent Systems* S.G. Tzafestas, 2011-10-04 Intelligent Systems involve a large class of systems which possess human like capabilities such as learning observation perception interpretation reasoning under uncertainty planning in known and unknown environments decision making and control action The field of intelligent systems is actually a new interdisciplinary field which is the outcome of the interaction cooperation and synergetic merging of classical fields such as system theory control theory artificial intelligence information theory operational research soft computing communications linguistic theory and others Integrated intelligent decision and control systems involve three primary hierarchical levels namely organization coordination and execution levels As we proceed from the be performed organization to the execution level the precision about the jobs to increase and accordingly the intelligence required for these jobs decreases This is in compliance with the principle of increasing precision with decreasing intelligence IPOI known from the management field and theoretically established by Saridis using information theory concepts This book is concerned with intelligent systems and techniques and gives emphasis on the computational and processing issues Control issues are not included here The contributions of the book are presented in four parts as follows

Artificial Intelligence & Expert Systems Sourcebook V. Daniel Hunt, 2012-12-06 Artificial Intelligence and expert systems research development and demonstration have rapidly expanded over the past several years as a result new terminology is appearing at a phenomenal rate This sourcebook provides an introduction to artificial intelligence and expert systems it provides brief definitions it includes brief descriptions of software products and vendors and notes leaders in the field Extensive support material is provided by delineating points of contact for receiving additional information acronyms a detailed bibliography and other reference data The terminology includes artificial intelligence and expert system elements for Artificial Intelligence Expert Systems Natural language Processing Smart Robots Machine Vision Speech Synthesis The Artificial Intelligence and Expert System Sourcebook is compiled from information acquired from numerous books journals and authorities in the field of artificial intelligence and expert systems I hope this compilation of information will help clarify the terminology for artificial intelligence and expert systems activities Your comments revisions or questions are welcome V Daniel Hunt Springfield Virginia May 1986 ix Acknowledgments The information in Artificial Intelligence and Expert Systems Sourcebook has been compiled from a wide variety of authorities who are specialists in their respective fields The following publications were used as the basic technical resources for this book Portions of these publications may have been used in the book Those definitions or artwork used have been reproduced with the permission to reprint of the respective publisher

Economics: Concepts, Methodologies, Tools, and Applications Management Association, Information

Resources,2015-06-30 Organizations governments and corporations are all concerned with distributing their goods and services to those who need them most consequently benefiting in the process Only by carefully considering the interrelated nature of social systems can organizations achieve the success they strive for Economics Concepts Methodologies Tools and Applications explores the interactions between market agents and their impact on global prosperity Incorporating both theoretical background and advanced concepts in the discipline this multi volume reference is intended for policymakers economists business leaders governmental and non governmental organizations and students of economic theory

Fundamentals of Mechanics of Robotic Manipulation Marco Ceccarelli,2013-03-09 This book has evolved from a course on Mechanics of Robots that the author has thought for over a dozen years at the University of Cassino at Cassino Italy It is addressed mainly to graduate students in mechanical engineering although the course has also attracted students in electrical engineering The purpose of the book consists of presenting robots and robotized systems in such a way that they can be used and designed for industrial and innovative non industrial applications with no great efforts The content of the book has been kept at a fairly practical level with the aim to teach how to model simulate and operate robotic mechanical systems The chapters have been written and organized in a way that they can be read even separately so that they can be used separately for different courses and readers However many advanced concepts are briefly explained and their use is emphasized with illustrative examples Therefore the book is directed not only to students but also to robot users both from practical and theoretical viewpoints In fact topics that are treated in the book have been selected as of current interest in the field of Robotics Some of the material presented is based upon the author's own research in the field since the late 1980's

Multi-Arm Cooperating Robots M.D. Zivanovic,M. Vukobratovic,2006-07-09 Several consistent solutions for cooperative system control have recently been identified by the authors of the current monograph This was achieved by solving three separate tasks that are essential for solving the problem of cooperative manipulation as a whole The first task is related to the understanding of the physical nature of cooperative manipulation and finding a way for a sufficiently exact characterization of cooperative system statics kinematics and dynamics After successfully completing this task in the frame of the second task the problem of coordinated motion of the cooperative system is solved Finally as a solution to the third task the control laws of cooperative manipulation are synthesized The starting point in dealing with the above three tasks of cooperative manipulation was the assumption that the problem of force uncertainty in cooperative manipulation can be resolved by introducing elastic properties into the cooperative system at least in the part where force uncertainty appears In static and dynamic analysis of the elastic structure of cooperative systems the finite element method is applied In contrast to the procedure used in the major part of the available literature where deformation work is expressed by deviations from the unloaded state of fixed elastic structure in this monograph the deformation work is expressed by internal forces as a function of the absolute coordinates of contacts of mobile elastic structure Coordinated motion and control in cooperative

manipulation are solved as the problem of coordinated motion and control of a mobile elastic structure taking into account the specific features of cooperative manipulation Coordinated motion and control laws in cooperative manipulation are synthesized on the basis of a non linear model where the problem of uncertainty is solved which is not the case in the available literature Simple examples demonstrate the consistent procedure of mathematical modeling and synthesis of nominal coordinated motion as well as control of the cooperative system This book will be useful to a wide audience of engineers ranging from undergraduate and graduate students new and advanced academic researchers to practitioners mechanical and electrical engineers computer and system scientists It is intended for readers whose work involves manufacturing industrial robotics automation computer and control engineering and who wish to find out about this important new technology and its potential advantages for control engineering applications **Computer Science and**

Engineering—Theory and Applications Mauricio A. Sanchez,Leocundo Aguilar,Manuel Castañón-Puga,Antonio Rodríguez-Díaz,2018-02-05 This book presents a collection of research findings and proposals on computer science and computer engineering introducing readers to essential concepts theories and applications It also shares perspectives on how cutting edge and established methodologies and techniques can be used to obtain new and interesting results Each chapter focuses on a specific aspect of computer science or computer engineering such as software engineering complex systems computational intelligence embedded systems and systems engineering As such the book will bring students and professionals alike up to date on key advances in these areas **Computational Intelligence and Quantitative Software**

Engineering Witold Pedrycz,Giancarlo Succi,Alberto Sillitti,2016-01-14 In a down to the earth manner the volume lucidly presents how the fundamental concepts methodology and algorithms of Computational Intelligence are efficiently exploited in Software Engineering and opens up a novel and promising avenue of a comprehensive analysis and advanced design of software artifacts It shows how the paradigm and the best practices of Computational Intelligence can be creatively explored to carry out comprehensive software requirement analysis support design testing and maintenance Software Engineering is an intensive knowledge based endeavor of inherent human centric nature which profoundly relies on acquiring semiformal knowledge and then processing it to produce a running system The knowledge spans a wide variety of artifacts from requirements captured in the interaction with customers to design practices testing and code management strategies which rely on the knowledge of the running system This volume consists of contributions written by widely acknowledged experts in the field who reveal how the Software Engineering benefits from the key foundations and synergistically existing technologies of Computational Intelligence being focused on knowledge representation learning mechanisms and population based global optimization strategies This book can serve as a highly useful reference material for researchers software engineers and graduate students and senior undergraduate students in Software Engineering and its sub disciplines Internet engineering Computational Intelligence management operations research and knowledge based systems **Asset**

Maintenance Engineering Methodologies José Manuel Torres Farinha, 2018-04-17 The book aims to be reading for asset maintenance management in a perspective of whole life cycle of any type of physical asset It deals with acquisition management including econometric models to evaluate its life cycle and the maintenance policies to adopt during its life until withdrawal It also covers vital areas such as EAM CMMS systems and its integration with the many technologies that are used to aid condition monitoring and the internet of things to improve maintenance management and to increase equipment availability This will equip readers with new management methodologies their requisites and its importance to the improvement of corporate competitiveness Key Features Presents life cycle analysis in asset management Attribution of tools to improve the life cycle of equipment Provides assistance on the diagnosis of the maintenance state Presentation of the state of the art of technology to aid maintenance Explores integration of EAM CMMS systems with internet of things **The**

SAGE Encyclopedia of Theory in Science, Technology, Engineering, and Mathematics James Mattingly, 2022-10-28 Project Description Theories are part and parcel of every human activity that involves knowing about the world and our place in it In all areas of inquiry from the most commonplace to the most scholarly and esoteric theorizing plays a fundamental role The SAGE Encyclopedia of Theory in Science Technology Engineering and Mathematics focuses on the ways that various STEM disciplines theorize about their subject matter How is thinking about the subject organized What methods are used in moving a novice in given field into the position of a competent student of that subject Within the pages of this landmark work readers will learn about the complex decisions that are made when framing a theory what goes into constructing a powerful theory why some theories change or fail how STEM theories reflect socio historical moments in time and how at their best they form the foundations for exploring and unlocking the mysteries of the world around us Featuring more than 200 authoritative articles written by experts in their respective fields the encyclopedia includes a Reader's Guide that organizes entries by broad themes lists of Further Readings and cross references that conclude each article and a Resource Guide listing classic books in the field leading journals associations and key websites *Digital-Twin-Enabled Smart Control*

Engineering Jairo Viola, YangQuan Chen, 2023-03-13 This book presents a novel design framework for the development of Digital Twin DT models for process and motion control applications It is based on system data acquisition using cutting edge computing technologies modelling of physical system behavior through detailed simultaneous simulation of different aspects of the system and optimal dynamic behavior matching of the process The design framework is enhanced with real time data analytics to improve the performance of the DT's behavior matching with the real system or physical twin The methods of creating a DT detailed in Digital Twin Enabled Smart Control Engineering make possible the study of a system for real time controller tuning and fault detection They also facilitate life cycle analysis for multiple critical and dangerous conditions that cannot be explored in the corresponding real system or physical twin The authors show how a DT can be exploited to enable self optimizing capabilities in feedback control systems The DT framework and the control performance assessment fault

diagnosis and prognosis remaining useful life analysis and self optimizing control abilities it allows are validated with both process and motion control systems and their DTs Supporting MATLAB based material for a case study and an expanded introduction to the basic elements of DTs can be accessed on an associated website This book helps university researchers from many areas of engineering to develop new tools for control design and reliability and life cycle assessment and helps practicing engineers working with robotic manufacturing and processing and mechatronic systems to maintain and develop the mechanical tools they use

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