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Selected contributions to the Workshop WAFR 2002, held December 15-17, 2002, Nice, France. This fifth biannual Workshop on Algorithmic Foundations of Robotics focuses on algorithmic issues related to robotics and automation. The design and analysis of robot algorithms raises fundamental questions in computer science, computational geometry, mechanical modeling, operations research, control theory, and associated fields. The highly selective program highlights significant new results such as algorithmic models and complexity bounds. The validation of algorithms, design concepts, or techniques is the common thread running through this focused collection. Papers presented at the 2003 Neural Information Processing Conference by leading physicists, neuroscientists, mathematicians, statisticians, and computer scientists. The annual Neural Information Processing (NIPS) conference is the flagship meeting on neural computation. It draws a diverse group of attendees -- physicists, neuroscientists, mathematicians,

statisticians, and computer scientists. The presentations are interdisciplinary, with contributions in algorithms, learning theory, cognitive science, neuroscience, brain imaging, vision, speech and signal processing, reinforcement learning and control, emerging technologies, and applications. Only thirty percent of the papers submitted are accepted for presentation at NIPS, so the quality is exceptionally high. This volume contains all the papers presented at the 2003 conference. Rapid advances in synthetic polymer science and nanotechnology have revealed new avenues of development in conductive electroactive polymers that take greater advantage of this versatile class of materials' unique properties. This third edition of *Conductive Electroactive Polymers: Intelligent Polymer Systems* continues to provide an in-depth understanding of how to engineer dynamic properties in inherently conducting polymers from the molecular level. New to the third edition: Biomedical, MEMS, and electronic textile applications The synthesis and fabrication of nanocomponents and nanostructures The energy role of nanotechnology in improving the performance of conducting materials in devices Electrochemical Raman, electrochemical ESR, and scanning vibrating reference electrode studies After establishing the basic principles of polymer chemistry, the book pinpoints the dynamic properties of the more useful conducting polymers, such as polypyrroles, polythiophenes, and polyanilines. It then demonstrates how the control of these properties enables

cutting-edge applications in nano, biomedicine, and MEMS as well as sensors and artificial muscles. Subsequent chapters discuss the effect of nanodimensional control on the resultant properties. Updated to reflect substantial developments and advances that have occurred in the past few years, this third edition of *Conductive Electroactive Polymers* unlocks a world of potential for integrating and interfacing conductive polymers. This unique collection is the post-conference proceedings of the 4th "International Conference on Field and Service Robotics" (FSR). This book has authoritative contributors and presents current developments and new directions in field and service robotics. The book represents a cross-section of the current state of robotics research from one particular aspect: field and service applications, and how they reflect on the theoretical basis of subsequent developments.

General Purpose Simulation System (GPSS) is a special computer programming language primarily used to simulate what can be classified as discrete systems. A discrete system is one where, at any given instant in time, a countable number of things can take place. The basic operation of a mine itself can be considered such a system. *Discrete Simulation and Animation for Mining Engineers* explains how to model mining systems using GPSS/H® and PROOF® by Wolverine Software Corporation. Employing a unique approach that encourages engagement from the start, the text discusses animation first, and then slowly

introduces simulation language. As each new topic is covered, an animation is provided to illustrate the key concepts. Leveraging valuable insight gained from the author's extensive experience modeling mines around the world, the book: Describes how to apply discrete system simulation to mines Shows how to make those simulations come alive with animation Includes real-world examples and exercises that hone practical problem-solving skills Written by a mining engineer for mining engineers and students of mining, Discrete Simulation and Animation for Mining Engineers offers a comprehensive yet accessible treatment of mine simulation and animation useful in increasing the efficiency of industrial mining processes. This book argues that in order to create a sustainable food supply whilst conserving nature, agriculture and nature must be reconnected and work together. "Titles of chemical papers in British and foreign journals" included in Quarterly journal, v. 1-12. History of Programming Languages presents information pertinent to the technical aspects of the language design and creation. This book provides an understanding of the processes of language design as related to the environment in which languages are developed and the knowledge base available to the originators. Organized into 14 sections encompassing 77 chapters, this book begins with an overview of the programming techniques to use to help the system produce efficient programs. This text then discusses how to use parentheses to help the system

identify identical subexpressions within an expression and thereby eliminate their duplicate calculation. Other chapters consider FORTRAN programming techniques needed to produce optimum object programs. This book discusses as well the developments leading to ALGOL 60. The final chapter presents the biography of Adin D. Falkoff. This book is a valuable resource for graduate students, practitioners, historians, statisticians, mathematicians, programmers, as well as computer scientists and specialists. This volume contains 50 papers presented at the 12th International Symposium of Robotics Research, which took place October 2005 in San Francisco, CA. Coverage includes: physical human-robot interaction, humanoids, mechanisms and design, simultaneous localization and mapping, field robots, robotic vision, robot design and control, underwater robotics, learning and adaptive behavior, networked robotics, and interfaces and interaction. This book is a collection of 15 reviewed technical reports summarizing the presentations at the 2011 Joint Workshop of Fraunhofer IOSB and Institute for Anthropomatics, Vision and Fusion Laboratory. The covered topics include image processing, optical signal processing, visual inspection, pattern recognition and classification, human-machine interaction, world and situation modeling, autonomous system localization and mapping, information fusion, and trust propagation in sensor networks. Today, digital technologies represent an absolute must when it comes to creating new products and factories. However, day-to-

day product development and manufacturing engineering operations have still only unlocked roughly fifty percent of the "digital potential". The question is why? This book provides compelling answers and remedies to that question. Its goal is to identify the main strengths and weaknesses of today's set-up for digital engineering working solutions, and to outline important trends and developments for the future. The book concentrates on explaining the critical basics of the individual technologies, before going into deeper analysis of the virtual solution interdependencies and guidelines on how to best align them for productive deployment in industrial and collaborative networks. Moreover, it addresses the changes needed in both, technical and management skills, in order to avoid fundamental breakdowns in running information technologies for virtual product creation in the future. This book addresses the discursive importance of the prosecution's opening statement before an international criminal tribunal. Opening statements are considered to be largely irrelevant to the official legal proceedings but are simultaneously deployed to frame important historical events. They are widely cited in international media as well as academic texts; yet have been ignored by legal scholars as objects of study in their own right. This book aims to remedy this neglect, by analysing the narrative that is articulated in the opening statements of different prosecutors at different tribunals in different times. It takes an interdisciplinary approach and looks at the meaning of

the opening narrative beyond its function in the legal process in a strict sense, discussing the ways in which the trial is situated in time and space and how it portrays the main characters. It shows how perpetrators and victims, places and histories, are juridified in a narrative that, whilst purporting to legitimise the trial, the tribunal and international criminal law itself, is beset with tensions and contradictions. Providing an original perspective on the operation of international criminal law, this book will be of considerable interest to those working in this area, as well as those with relevant interests in International/Transnational Law more generally, Critical Legal Studies, Law and Literature, Socio-Legal Studies, Law and Geography and International Relations.

Current Issues in Computer Simulation is a collection of papers dealing with computer simulation languages, statistical aspects of simulation, linkage with optimization and analytical models, as well as theory and application of simulation methodology. Some papers explain the General Purpose Simulation System (GPSS), a programming package incorporating a language to simulate discrete systems; and the SIMSCRIPT, a general-purpose simulation language using English commands, for example, FORTRAN. Another simulation language is the General Activity Simulation Program (GASP), providing for an organizational structure to build models to simulate the dynamic performance of systems on a digital computer. Other papers discuss simulation models of real systems,

including corporate simulation models, multistage consumer choice process, determination of maximum occupancy for hospital facilities, and the juvenile court system. Many computer simulations are statistical sampling experiments performed on a model of the system under investigation. Other papers discuss some of the variables involved in the statistical design and analysis of simulation experiments such as variance reduction techniques, generation of random variates, and experimental layout. For example, one application simulates inventory systems when many items are stocked in various locations. The collection is suitable for programmers, computer engineers, businessmen, hospital administrators, schools officials, and depositories of huge volumes of information or data. An Annotated Timeline of Operations Research: An Informal History recounts the evolution of Operations Research (OR) as a new science - the science of decision making. Arising from the urgent operational issues of World War II, the philosophy and methodology of OR has permeated the resolution of decision problems in business, industry, and government. The Timeline chronicles the history of OR in the form of self-contained, expository entries. Each entry presents a concise explanation of the events and people under discussion, and provides key sources where further relevant information can be obtained. In addition, books and papers that have influenced the development of OR or helped to educate the first generations of OR academics and practitioners are cited throughout the

book. Starting in 1564 with seminal ideas that form the precursors of OR, the Timeline traces the key ideas and events of OR through 2004. The Timeline should interest anyone involved in OR - researchers, practitioners, academics, and, especially, students - who wish to learn how OR came into being. Further, the scope and expository style of the Timeline should make it of value to the general reader interested in the development of science and technology in the last half of the twentieth century. For more than 30 years, Yoga Journal has been helping readers achieve the balance and well-being they seek in their everyday lives. With every issue, Yoga Journal strives to inform and empower readers to make lifestyle choices that are healthy for their bodies and minds. We are dedicated to providing in-depth, thoughtful editorial on topics such as yoga, food, nutrition, fitness, wellness, travel, and fashion and beauty.

Geoffrey Gordon, a young widower under dubious circumstances lives in London. A father to two children he takes a marriage of convenience so that he can leave his children and join up to fight in the Second World War. He fights through Dunkirk, N. Africa and Italy where his experiences will at times make you laugh uproariously, and at others bring you close to tears. Gradually Geoffrey sinks into madness due to his personal loss and war, made worse by the dark secret that he has carried with him since the death of his first wife.

Machine learning systems are both complex and unique. Complex because they consist of many different

components and involve many different stakeholders. Unique because they're data dependent, with data varying wildly from one use case to the next. In this book, you'll learn a holistic approach to designing ML systems that are reliable, scalable, maintainable, and adaptive to changing environments and business requirements. Author Chip Huyen, co-founder of Claypot AI, considers each design decision--such as how to process and create training data, which features to use, how often to retrain models, and what to monitor--in the context of how it can help your system as a whole achieve its objectives. The iterative framework in this book uses actual case studies backed by ample references. This book will help you tackle scenarios such as: Engineering data and choosing the right metrics to solve a business problem Automating the process for continually developing, evaluating, deploying, and updating models Developing a monitoring system to quickly detect and address issues your models might encounter in production Architecting an ML platform that serves across use cases Developing responsible ML systems From the authors' preface: "As we enter the era of intelligent materials and embark upon a new approach to material design, synthesis, and system integration, certain groups of materials will emerge as champions." Standing high among these champions are conductive electroactive polymers (CEPs), which appear destined to play a central role Machine Learning Methods for Planning provides information pertinent to learning methods for planning and

scheduling. This book covers a wide variety of learning methods and learning architectures, including analogical, case-based, decision-tree, explanation-based, and reinforcement learning. Organized into 15 chapters, this book begins with an overview of planning and scheduling and describes some representative learning systems that have been developed for these tasks. This text then describes a learning apprentice for calendar management. Other chapters consider the problem of temporal credit assignment and describe tractable classes of problems for which optimal plans can be derived. This book discusses as well how reactive, integrated systems give rise to new requirements and opportunities for machine learning. The final chapter deals with a method for learning problem decompositions, which is based on an idealized model of efficiency for problem-reduction search. This book is a valuable resource for production managers, planners, scientists, and research workers. Abstract: "One of the basic problems of machine learning is deciding how to act in an uncertain world. For example, if I want my robot to bring me a cup of coffee, it must be able to compute the correct sequence of electrical impulses to send to its motors to navigate from the coffee pot to my office. In fact, since the results of its actions are not completely predictable, it is not enough just to compute the correct sequence; instead the robot must sense and correct for deviations from its intended path. In order for any machine learner to act reasonably in an uncertain

environment, it must solve problems like the above one quickly and reliably. Unfortunately, the world is often so complicated that it is difficult or impossible to find the optimal sequence of actions to achieve a given goal. So, in order to scale our learners up to real-world problems, we usually must settle for approximate solutions. One representation for a learner's environment and goals is a Markov decision process or MDP. MDPs allow us to represent actions that have probabilistic outcomes, and to plan for complicated, temporally-extended goals. An MDP consists of a set of states that the environment can be in, together with rules for how the environment can change state and for what the learner is supposed to do. One way to approach a large MDP is to try to compute an approximation to its optimal state evaluation function, the function which tells us how much reward the learner can be expected to achieve if the world is in a particular state. If the approximation is good enough, we can use a shallow search to find a good action from most states. Researchers have tried many different ways to approximate evaluation functions. This thesis aims for a middle ground, between algorithms that don't scale well because they use an impoverished representation for the evaluation function and algorithms that we can't analyze because they use too complicated a representation."

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