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### **DARIO ALEX**

*Government reports annual index* Springer

PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology.

*Subject Index of Current Research Grants and Contracts Administered by the National Heart, Lung and Blood Institute* CRC Press

It is a general trend in computing that computers are becoming ever smaller and ever more interconnected. Sensor networks – large networks of small, simple devices – are a logical extreme of this trend. Wireless sensor networks (WSNs) are attracting an increasing degree of research interest, with a growing number of industrial applications starting to emerge. Two of these applications, personal health monitoring and emergency/disaster recovery, are the focus of the European Commission project ProSense: Promote, Mobilize, Reinforce and Integrate Wireless Sensor Networking Research and Researchers. This hands-on introduction to WSN systems development presents a broad coverage of topics in the field, contributed by researchers involved in the ProSense project. An emphasis is placed on the practical knowledge required for the successful implementation of WSNs. Divided into four parts, the first part covers basic issues of sensors, software, and position-based routing protocols. Part two focuses on

multidisciplinary issues, including sensor network integration, mobility aspects, georouting, medical applications, and vehicular sensor networks. The remaining two parts present case studies and further applications. Topics and features: presents a broad overview of WSN technology, including an introduction to sensor and sensing technologies; contains an extensive section on case studies, providing details of the development of a number of WSN applications; discusses frameworks for WSN systems integration, through which WSN technology will become fundamental to the Future Internet concept; investigates real-world applications of WSN systems in medical and vehicular sensor networks; with a Foreword by the Nobel Laureate Professor Martin Perl of Stanford University. Providing holistic coverage of WSN technology, this text/reference will enable graduate students of computer science, electrical engineering and telecommunications to master the specific domains of this emerging area. The book will also be a valuable resource for researchers and practitioners interested in entering the field.

**PC Mag** IOS Press

This book presents a selection of expanded research papers from the Fourth IFIP Workshop on the Performance Modelling and Evaluation of ATM Networks. It provides a fundamental source of reference on the latest research techniques and tools concerning ATM networks worldwide. A number of important topics are featured including: traffic modelling and characterisation, models of ATM switches, network management, high speed LANs and MANs and routing and optimization.

**Affordable Excellence** John Wiley & Sons

150 years after the first description of the clinical picture of "white blood" and the introduction of the term "leukemia" by R. Virchow it appears, that the leukemias, and the acute leukemias in particular, serve as an impressive example for the major improvements that have been achieved in the treatment but also in the understanding of the biology of malignant disorders. The international symposia "Acute Leukemia" which are held at Münster since 1986 have developed into an international forum to review the current progress and the future perspectives of leukemia research and therapy at a high scientific and clinical level. Since the possibility for active participation in these symposia is somewhat restricted we are glad to have the opportunity to extend the information that was presented at the symposium "Acute Leukemias V - Experimental Approaches and Management of Refractory Disease" which was held from February 27 to March 2, 1994 to a broader audience of basic scientists and clinicians. This meeting was especially designed to discuss experimental approaches and the management of refractory disease which allows to evaluate new experimental therapies on the basis of preclinical studies.

*Climbing and Walking Robots and the Support Technologies for Mobile Machines* Brookings Institution Press

This book presents the most up-to-date coverage of procedural content generation (PCG) for games, specifically the procedural generation of levels, landscapes, items, rules, quests, or other types of content. Each chapter explains an algorithm type or domain, including fractal methods, grammar-based methods, search-based and evolutionary methods, constraint-based methods, and narrative, terrain, and dungeon generation. The authors are active academic researchers and game developers, and the book is appropriate for undergraduate and graduate students of courses on games and creativity; game developers who want to learn new methods for content generation; and researchers in related areas of artificial intelligence and computational intelligence.

**Army R, D & A.** IOS Press

Modern computing systems work when all components are correct by design and can be combined to achieve scalability. This publication offers refereed papers covering various aspects such as: system design and implementation; tools (concurrent programming languages, libraries, and run-time kernels); and, formal methods and applications.

[Water for Peace: Planning and developing water programs](#) Springer Science & Business Media

Master the robust features of R parallel programming to accelerate your data science computations About This Book Create R programs that exploit the computational capability of your cloud platforms and computers to the fullest Become an expert in writing the most efficient and highest performance parallel algorithms in R Get to grips with the concept of parallelism to accelerate your existing R programs Who This Book Is For This book is for R programmers who want to step beyond its inherent single-threaded and restricted memory limitations and learn how to implement highly accelerated and scalable algorithms that are a necessity for the performant processing of Big Data. No previous knowledge of parallelism is required. This book also provides for the more advanced technical programmer seeking to go beyond high level parallel frameworks. What You Will Learn Create and structure efficient load-balanced parallel computation in R, using R's built-in parallel package Deploy and utilize cloud-based parallel infrastructure from R, including launching a distributed computation on Hadoop running on Amazon Web Services (AWS) Get accustomed to parallel efficiency, and apply simple techniques to benchmark, measure speed and target improvement in your own code Develop complex parallel processing algorithms with the standard Message Passing Interface (MPI) using RMPI, pbdMPI, and SPRINT packages Build and extend a parallel R package (SPRINT) with your own MPI-based routines Implement accelerated numerical functions in R utilizing the vector processing capability of your Graphics Processing Unit (GPU) with OpenCL Understand parallel programming pitfalls, such as deadlock and numerical instability, and the approaches to handle and avoid them Build a task farm master-worker, spatial grid, and hybrid parallel R programs In Detail R is one of the most popular programming languages used in data science. Applying R to big data and complex analytic tasks requires the harnessing of scalable compute resources. Mastering Parallel Programming with R presents a comprehensive and practical treatise on how to build highly scalable and efficient algorithms in R. It will teach you a variety of parallelization techniques, from simple use of R's built-in parallel package versions of `lapply()`, to high-level AWS cloud-based Hadoop and Apache Spark frameworks. It will also teach you low level scalable parallel programming using RMPI and pbdMPI for message passing, applicable to clusters and supercomputers, and how to exploit thousand-fold simple processor GPUs through ROpenCL. By the end of the book, you will understand the factors that influence parallel efficiency, including assessing code performance and implementing load balancing; pitfalls to avoid, including deadlock and numerical instability issues; how to structure your code and data for the most appropriate type of parallelism for your problem domain; and how to extract the maximum performance from your R code running on a variety of computer systems. Style and approach This book leads you chapter by chapter from the easy to more complex forms of parallelism. The author's insights are presented through clear practical examples applied to a range of different problems, with comprehensive reference information for each of the R packages employed. The book can be read from start to finish, or by dipping in chapter by chapter, as each chapter describes a specific parallel approach and technology, so can be read as a standalone.

**Government Reports Annual Index** Springer Science & Business Media

This book constitutes the thoroughly refereed post-conference proceedings of the International Conference on the Applications of Evolutionary Computation, EvoApplications 2014, held in Granada, Spain, in April 2014, colocated with the Evo\* 2014 events EuroGP, EvoCOP, and EvoMUSART. The 79 revised full papers presented were carefully reviewed and selected from 128 submissions. EvoApplications 2014 consisted of the following 13 tracks: EvoCOMNET (nature-inspired techniques for telecommunication networks and other parallel and distributed systems), EvoCOMPLEX (evolutionary algorithms and complex systems), EvoENERGY (evolutionary computation in energy applications), EvoFIN (evolutionary and natural computation in finance and economics), EvoGAMES (bio-inspired algorithms in games), EvoIASP (evolutionary computation in image analysis, signal processing, and pattern recognition), EvoINDUSTRY (nature-inspired techniques in industrial settings), EvoNUM (bio-inspired algorithms for continuous parameter optimization), EvoPAR (parallel implementation of evolutionary algorithms), EvoRISK (computational intelligence for risk management, security and defence applications), EvoROBOT (evolutionary computation in robotics), EvoSTOC (evolutionary algorithms in stochastic and dynamic environments), and EvoBio (EC and related techniques in bioinformatics and computational biology).

*GAO Documents* Packt Publishing Ltd

Hex is the subject of books by Martin Gardner and Cameron Browne. Hex theory touches on graph theory, game theory and combinatorial game theory, with elegant proofs that the game has no draws and that the first player can win. From machines built by Claude Shannon to agents using Monte Carlo Tree Search, Hex is often used in the study of artificial intelligence. Written for a wide audience, this is the full story of Hex, inside and out, with all its twists and turns: Hein's creation, Lindhard's puzzles, Nash's proofs, Gale's Bridg-it, the game of Rex, Shannon's machines, Bridg-it's fall, Hex's resilience, Hex theory, the hunt for winning strategies, and the rise of Hexbots.

**Procedural Content Generation in Games** Springer

The capability to design quality software and implement modern information systems is at the core of economic growth in the 21st century. This book aims to review and analyze software engineering technologies, focusing on the evolution of design and implementation platforms as well as on novel computer systems.

**Application and Multidisciplinary Aspects of Wireless Sensor Networks** IGI Global

"Today Singapore ranks sixth in the world in healthcare outcomes well ahead of many developed countries, including the United States. The results are all the more significant as Singapore spends less on healthcare than any other high-income country, both as measured by fraction of the Gross Domestic Product spent on health and by costs per person. Singapore achieves these results at less than one-fourth the cost of healthcare in the United States and about half that of Western European countries. Government leaders, presidents and prime ministers, finance ministers and ministers of health, policymakers in congress and parliament, public health officials responsible for healthcare systems planning, finance and operations, as well as those working on healthcare issues in universities and think-tanks should know how this system works to achieve affordable excellence."--Publisher's website.

*ATM Networks* UN-HABITAT

This report provides a comprehensive review of the challenges for low and moderate income housing. It focuses on the issues of affordability, accessibility and sustainability in resolving the housing problem. It looks at both formal and informal instruments and how experiences in developed countries and instruments in addressing middle income households can help inspire solutions for low and moderate income housing. The report examines a whole range of major instruments and experiences across the developing and developed worlds.

**Applications of Statistics and Probability in Soil and Structural Engineering** Springer

Robotic technology advances for a wide variety of applications Climbing and Walking Robots and the Support Technologies for Mobile Machines explores the increasing interest in real-world robotics and the surge in research and invention it has inspired. Featuring the latest advances from leading robotics labs around the globe, this book presents solutions for perennial challenges in robotics and suggests directions for future research. With applications ranging from personal services and entertainment to emergency rescue and extreme environment intervention, the groundbreaking work presented here provides a glimpse of the future.

[Resource Allocation in Next-Generation Broadband Wireless Access Networks](#) Springer

AIPPI Series, Volume Number 2. The second edition of Patent Protection for Second Medical Uses is a practical guide on the ever-relevant and controversial topic 'Second Medical Use' (SMU) patents, which play a significant role in the potential second-line patent protection and have become increasingly important. This edition's analysis sheds light on the availability of protection for second medical use claims and its legal basis, followed by a detailed look at the specifics of various jurisdictions. Following the abandoning of 'Swiss-type claims' at the European Patent Office (EPO), applicants had to develop new filing strategies while such claims are still allowable in a number of national jurisdictions worldwide; the consequences of this have not yet fully been explored in practice. Jurisdictions around the world show significant differences in the treatment of such claims, although they share common approaches in patent law overall. This second edition furnishes a detailed and elaborate analysis, providing clarity, insight and guidance on legal issues and practical implications of SMU claims in twenty-four jurisdictions (the EPO and twenty-three individual countries). What's in this book: This book, published under the aegis of the esteemed International Association for the Protection of Intellectual Property (AIPPI), contains a chapter-wise analysis by carefully chosen authors known for their expertise and experience in this field. Each chapter highlights such issues and topics as the following: availability and scope of protection; validity of claims; enforcement; infringement and investigations; and procedural aspects and tactical recommendations. The AIPPI studied certain aspects of second medical use claims on the occasion of its Congress in Toronto in 2014. This led to its Resolution Q 238 - 'Second medical use and other second indication claims', which triggered this comparative law analysis and a copy of which is found at the end of this book. How this will help you: This book is an enlightening compendium of contributions from across the globe. It not only renders guidance to interested legal practitioners when filing a patent application and assessing risks of conflict with existing patents or patent applications but also explains the key issues and contains practical advice when enforcing such claims or defending against an action. Also, this book will prove to be of immense practical interest for patent lawyers and patent attorneys and for the industries involved, applicants for pharmaceutical patents and third parties.

**Software Engineering** Kluwer Law International B.V.

Catalog of reports, decisions and opinions, testimonies and speeches.

**Military Intelligence**

These proceedings of the SAI Intelligent Systems Conference 2016 (IntelliSys 2016) offer a remarkable collection of chapters on a wide range of topics in intelligent systems, artificial intelligence and their applications to the real world. Authors hailing from 56 countries on 5 continents submitted 404 papers to the conference, attesting to the global importance of the conference's themes. After being reviewed, 222 papers were accepted for presentation, and 168 were ultimately selected for these proceedings. Each has been reviewed on the basis of its originality, novelty and rigor. The papers not only present state-of-the-art methods and valuable experience from researchers in the related research areas; they also outline the field's future development.

**Research Awards Index**

With the growing popularity of wireless networks in recent years, the need to increase network capacity and efficiency has become more prominent in

society. This has led to the development and implementation of heterogeneous networks. Resource Allocation in Next-Generation Broadband Wireless Access Networks is a comprehensive reference source for the latest scholarly research on upcoming 5G technologies for next generation mobile networks, examining the various features, solutions, and challenges associated with such advances. Highlighting relevant coverage across topics such as energy efficiency, user support, and adaptive multimedia services, this book is ideally designed for academics, professionals, graduate students,

and professionals interested in novel research for wireless innovations.

[Acute Leukemias V](#)

**Engineering History, 1917-1978**

*Public Enterprises Survey*