Block Schematic Of Scientific Approach

Research Methodology-Vinayak Bairagi 2019-01-30 This book offers a design research methodology intended to improve the quality of design research- its academic credibility, industrial significance and societal contribution by enabling more thorough, efficient and effective procedures.

Advances in Computer Science, Engineering & Applications-David C. Wyld 2012-05-15 The International conference series on Computer Science, Engineering & Applications (ICCSEA) aims to bring together researchers and practitioners from academia and industry to focus on understanding computer science, engineering and applications and to establish new collaborations in these areas. The Second International Conference on Computer Science, Engineering & Applications (ICCSEA-2012), held in Delhi, India, during May 25-27, 2012 attracted many local and international delegates, presenting a balanced mixture of intellect and research both from the East and from the West. Upon a strenuous peer-review process the best submissions were selected leading to an exciting, rich and a high quality technical conference program, which featured high-impact presentations in the latest developments of various areas of computer science, engineering and applications research.

Modern Approaches in Machine Learning and Cognitive Science: A Walkthrough-Vinit Kumar Gunjan 2020-02-04 This book discusses various machine learning & cognitive science approaches, presenting high-throughput research by experts in this area. Bringing together machine learning, cognitive science and other aspects of artificial intelligence to help provide a roadmap for future research on intelligent systems, the book is a valuable reference resource for students, researchers and industry practitioners wanting to keep abreast of recent developments in this dynamic, exciting and profitable research field. It is intended for postgraduate students, researchers, scholars and developers who are interested in machine learning and cognitive research, and is also suitable for senior undergraduate courses in related topics. Further, it is useful for practitioners dealing with advanced data processing, applied mathematicians, developers of software for agent-oriented systems and developers of embedded and real-time systems.

Control Systems-Srivastava 2009

Dialogue Concerning the Two Chief Approaches to a Science of Life-William T. Powers 2010 Correspondence between William T. Powers, originator of Perceptual Control Theory, PCT, and Philip J. Runkel, professor of psychology and education at the University of Oregon. 500 pages of original letters show how Phil Runkel reevaluated everything he knew about psychology. This focused correspondence deals with the science (or lack thereof) and (inappropriate) methods used in psychology while introducing a new approach to a new natural science of psychology. Enclosures that go with the letters are available on the web.

Analytical Methods In Corrosion Science and Engineering-Philippe Marcus 2005-07-27 Damage from corrosion costs billions of dollars per year. Controlling corrosion requires a fundamental, in-depth understanding of the mechanisms and phenomena involved, and this understanding is best achieved through advanced analytical methods. The first book to treat both surface analytical and electrochemical techniques in a single reference, Analytical Methods in Corrosion Science and Engineering equips you with hands-on tools for solving corrosion problems and improving corrosion resistance. The book begins with the major surface analytical techniques, their principles, instrumentation, and the exact nature of the information derived from their measurements. Individual chapters are devoted to electron spectroscopy, ion analytical methods, nanoprobes, synchrotron methods, infrared spectroscopy, and glow discharge optical emission spectroscopy followed by recent developments in the application of radiotracer methods, nanoscratching, and nanoindentation. Coverage then moves to electrochemical techniques, beginning with an introduction to electrochemical instrumentation that reveals the requirements for accurate and meaningful measurements as well as potential errors and how to avoid them. The authors provide a thorough background of each technique and illustrate its use for a variety of corrosion systems, in many cases using examples of practical industrial applications. Contributed by a team of prominent experts from major universities and national research laboratories around the world, Analytical Methods in Corrosion Science and Engineering is the most comprehensive guide available for investigating surface corrosion.

Systems Representation of Global Climate Change Models-N. Sreenath 1993-03-31 This book bridges the gap between system theory and global climate change research, and benefits both. A

representative set of systems problems is listed indicating how such cross-fertilization would enhance present understanding of global problems while assisting the extension of systems theory. The goal is a comprehensive conceptual model of global change which encompasses atmosphere, lithosphere, ocean, biosphere and cryosphere. The systems model is developed in two steps using a "block diagram" approach. First, causality flows among principal components are identified and a block diagram representation is constructed. Second, mathematical description of the mappings represented by the blocks is derived from the physical principles and known disciplinary models. The generation of the complete block diagram is believed to be the first of its kind. A number of helpful features characterize the book. Chapter 1 provides the basic framework and organization of the book. Chapter 2 is a primer to global climate systems for the reader unfamiliar with the subject of the scientific aspects of global warning. A list of notation in Appendix B, a glossary of global climate change research search terminology, and a detailed index for cross referencing are included. Additionally, a representative set of relevant systems problems in global change is listed at the end of the book.

Papers- 1962

Seventh Military-Industry Missile and Space Reliability Symposium- 1963

Planning Knowledge and Research-Thomas W. Sanchez 2017-12-22 The field of urban planning is far-reaching in breadth and depth. This is due to the complex nature of cities, regions, and development processes. The knowledge domain of planning includes social, economic, technological, environmental, and political systems that continue to evolve and expand rapidly. Understanding these systems is an inter-disciplinary endeavor at the scale of several academic fields. The wide range of topics considered by planning educators and practitioners are often based on varying definitions of "planning" and modes of planning practice. This unique book discusses various elements and contributions to urban planning research to show that seemingly disparate topics do in fact intersect and together, contribute to ways of understanding urban planning. The objective is not to discuss how to "do" research, but rather, to explore the context of urban planning scholarship with implications for the planning academy and planning practice. This edited volume includes chapters contributed by a diverse range of planning scholars who consider the corpus of planning scholarship both historically and critically in their area of expertise. It is essential reading for students of planning research and planning theory from around the world.

Dynamics and Control of the Activated Sludge Process-Paul Bishop 1992-04-24

Empirical Foundations of Information and Software Science V-Pranas Zunde 2012-12-06 This is the proceedings of the Sixth Symposium on Empirical Foundations of Information and Software Sciences (EFISS), which was held in Atlanta, Georgia, on October 19-21, 1988. The purpose of the symposia is to explore subjects and methods of scientific inquiry which are of common interest to information and software sciences, and to identify directions of research that would benefit from the mutual interaction of these two disciplines. The main theme of the sixth symposium was modeling in information and software engineering, with emphasis on methods and tools of modeling. The symposium covered topics such as models of individual and organizational users of information systems, methods of selecting appropriate types of models for a given type of users and a given type of tasks, deriving models from records of system usage, modeling system evolution, constructing user and task models for adaptive systems, and models of system architectures. This symposium was sponsored by the School of Information and Computer Science of the Georgia Institute of Technology and by the U.S. Army Institute for Research in Management Information, Communications, and Computer Sciences (AIRMICS). 17le Editors vii CONTENTS 1 I. KEYNOTE ADDRESS ..... .

Mine Safety Science and Engineering-Debi Prasad Tripathy 2019-08-28 In Mining Engineering operations, mines act as sources of constant danger and risk to the miners and may result in disasters unless mining is done with safety legislations and practices in place. Mine safety engineers promote and enforce mine safety and health by complying with the established safety standards, policies, guidelines and regulations. These innovative and practical methods for ensuring safe mining operations are discussed in this book including technological advancements in the field. It will prove useful as reference for engineering and safety professionals working in the mining industry, regulators, researchers, and students in the field of mining engineering.

Encyclopedia of Computer Science and Technology-Allen Kent 1990-08-20 "This comprehensive reference work provides immediate, fingertip access to state-of-the-art technology in nearly 700 self-contained articles written by over 900 international authorities. Each article in the Encyclopedia features current developments and trends in computers, software, vendors, and applications...extensive bibliographies of leading figures in the field, such as Samuel Alexander, John von Neumann, and Norbert Wiener...and in-depth analysis of future directions."

Technology and the American Economy-United States. National Commission on Technology, Automation, and Economic Progress 1966

Instrumentation, Control and Automation of Water and Wastewater Treatment and Transport Systems 1993-B. Jank 2016-06-06 Instrumentation, Control and Automation of Water and Wastewater Treatment and Transport Systems 1993 comprises a selection of manuscripts on the development of control strategies and their applications and on the status and future directions of Instrumentation, Control, and Automation (ICA) in the water and wastewater industry. The book starts by providing an overview of the status, the constraints and the future prospects for ICA in water and wastewater treatment and transport based on the survey responses of experts from 16 different countries. The text continues by presenting the need for dynamic modeling and simulation software to assist operations staff in developing effective instrumentation control strategies and to provide a training environment for the evaluation of such strategies. The book also covers the critical variables in system success; the use of an enterprise-wide computing that emphasizes the importance of strategic planning, performance measures, and human factors associated with the suggested implementation of applied technology; and the use of part-time unmanned operation at a large wastewater treatment plant. A functional approach based on the utility's water and wastewater functional requirements; the collection system monitoring and control; water distribution and control systems; dynamic modeling and simulation; and process control strategy and development are also considered. This book will be beneficial to biochemists, wastewater technologists, and public health authorities.

Transactions on Computational Science XXXII-Marina L. Gavrilova 2018-04-14 This, the 32nd issue of the Transactions on Computational Science, focusses on cybersecurity and biometrics. The eight detailed papers cover the following topics: Multimodal Warnings for Distracted Smartphone Users on the Move; EEG-Based Mental Workload and Stress Monitoring of Crew Members in a Maritime Virtual Simulator; Detecting Web Defacement and Enabling Web-Content Regeneration; Software as a Weapon in the Context of (Inter)national Security; Multi-user Architecture and Multi-player Games; An Adaptive Discrete Wavelet Transform Based Face Recognition Approach; Synthesizing Images of Imagined Faces Based on Relevance Feedback; and Neurofeedback Training to Enhance the Focused Attention of Elite Rifle Shooters.

Computational Science and Technology-Rayner Alfred 2018-08-27 This book features the proceedings of the Fifth International Conference on Computational Science and Technology 2018 (ICCST2018), held in Kota Kinabalu, Malaysia, on 29–30 August 2018. Of interest to practitioners and researchers, it presents exciting advances in computational techniques and solutions in this area. It also identifies emerging issues to help shape future research directions and enable industrial users to apply cutting-edge, large-scale and high-performance computational methods.

Terahertz Science and Technology for Military and Security Applications-Dwight L. Woolard 2007 The inherent advantages and potential payoffs of the terahertz (THz) regime for military and security applications serve as an important driver for interest in new THz-related science and technology. In particular, the very rapid growth in more recent years is arguably most closely linked to the potential payoffs of THz sensing and imaging (THz-S&I). This book presents some of the leading fundamental research efforts towards the realization of practical THz-S&I capabilities for military and security applications. Relevant subjects include theoretical prediction and/or measurement of THz spectroscopic phenomenon in solid-state materials such as high explosives (e.g. HMX, PETN, RDX, TNT, etc.), carbon-fiber composites, biological agents (e.g. DNA, RNA, proteins, amino acids) and organic-semiconductor nanostructures. Individual papers also address the effective utilization of state-of-the-art THz-frequency technology in military and security relevant scenarios such as standoff S&I, screening of packages and personnel, and perimeter defense. Technical papers introduce novel devices and/or concepts that enhance THz source and detector performance, enabling completely new types of sensor functionality at THz frequency (e.g. detection at nanoscale/molecular levels), and defining new and innovative sensing modalities (e.g. remote personnel identification) for defense and security. Therefore, the collective research presented here represents a valuable source of information on the evolving field of THz-S&I for military and security applications. Sample Chapter(s). Foreword (106 KB). Chapter 1: Development of Computational Methodologies for the Prediction and Analysis of Solid-State Terahertz Spectra (1,347 KB). Contents: Fire Damage on Carbon Fiber Materials Characterized by THz Waves (N Karpowicz et al.); Fingerprinting Insulins in the Spectral Region from Mid-IR to THz (R Song et al.); Ambient Air Used as the Nonlinear Media for THz Wave Generation (X Xie et al.); Time Domain Terahertz Imaging of Threats in Luggage and Personnel (D Zimdars et al.); Designed Self-Organization for Molecular Optoelectronic Sensors (M Norton); An Optically-Triggered I-RTD Hybrid THz Oscillator Design (D Woolard et al.); New Technique to Suppress Sidelobe Clutter in Perimeter Security Systems (G W Webb et al.); Remote Identification of Foreign Subjects (A Sokolnikov); and other papers. Readership: University researchers in electrical engineering, physics, chemistry, biology; students and small business efforts in high-frequency electronics and sensors; as a supplement for graduate courses.

Successful Scientific Writing Full Canadian Binding-Janice R. Matthews 2000-10-26 A user-friendly guide to good writing in the biological and medical sciences.

Computer and Information Science-Roger Lee 2008-05-07 The 7th IEEE/ACIS Conference and the 2nd IEEE/ACIS Workshop on e-Activity (IWEA 2008) featured researchers from around the world. The conference organizers selected 23 outstanding papers for this volume of Springer's Studies in Computational Intelligence.

Chemical Synergies-Nuno A.G. Bandeira 2018-05-07 This book gives an overview of recent integrated and inter-disciplinary approaches between chemical experiment and theory in a variety of fields, from polymer science to materials chemistry and ranging from the design of tailored properties to catalysis and reactivity, building on the well-established success of Density Functional Theory as the foremost quantum chemical method to provide qualitative and quantitative interpretation of results from the chemical laboratory. The combination of several characterization techniques with an understanding at the molecular level of chemical and physical phenomena are the main focal point of the subject matter.

Computational Science – ICCS 2019-João M. F. Rodrigues 2019-06-07 The five-volume set LNCS 11536, 11537, 11538, 11539, and 11540 constitutes the proceedings of the 19th International Conference on Computational Science, ICCS 2019, held in Faro, Portugal, in June 2019. The total of 65 full papers and 168 workshop papers presented in this book set were carefully reviewed and selected from 573 submissions (228 submissions to the main track and 345 submissions to the workshops). The papers were organized in topical sections named: Part I: ICCS Main Track Part II: ICCS Main Track; Track of Advances in High-Performance Computational Earth Sciences: Applications and Frameworks; Track of Agent-Based Simulations, Adaptive Algorithms and Solvers; Track of Applications of Matrix Methods in Artificial Intelligence and Machine Learning; Track of Architecture, Languages, Compilation and Hardware Support for Emerging and Heterogeneous Systems Part III: Track of Biomedical and Bioinformatics Challenges for Computer Science; Track of Classifier Learning from Difficult Data; Track of Computational Finance and Business Intelligence; Track of Computational Optimization, Modelling and Simulation; Track of Computational Science in IoT and Smart Systems Part IV: Track of Data-Driven Computational Sciences; Track of Machine Learning and Data Assimilation for Dynamical Systems; Track of Marine Computing in the Interconnected World for the Benefit of the Society; Track of Multiscale Modelling and Simulation; Track of Simulations of Flow and Transport: Modeling, Algorithms and Computation Part V: Track of Smart Systems: Computer Vision, Sensor Networks and Machine Learning; Track of Solving Problems with Uncertainties; Track of Teaching Computational Science; Poster Track ICCS 2019 Chapter “Comparing Domain-decomposition Methods for the Parallelization of Distributed Land Surface Models” is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

Transactions on Computational Science XXV-Marina L. Gavrilova 2015-04-27 The LNCS journal Transactions on Computational Science reflects recent developments in the field of Computational Science, conceiving the field not as a mere ancillary science but rather as an innovative approach supporting many other scientific disciplines. The journal focuses on original high-quality research in the realm of computational science in parallel and distributed environments, encompassing the facilitating theoretical foundations and the applications of large-scale computations and massive data processing. It addresses researchers and practitioners in areas ranging from aerospace to biochemistry, from electronics to geosciences, from mathematics to software architecture, presenting verifiable computational methods, findings and solutions and enabling industrial users to apply techniques of leading-edge, large-scale, high performance computational methods. This, the 25th issue of the Transactions on Computational Science journal, consists of two parts. Part I, which is guest edited by Khalid Saeed, Nabendu Chaki and Soharab Hossain Shaikh, covers the areas of computer vision, image processing for biometric security, information fusion, and Kinect activity recognition. The papers in Part II focus on optimization through novel methods for data fusion, clustering in WSN, fault-tolerance, probability, weight assignment and risk analysis.

Scientific and Technical Aerospace Reports- 1992

Advances in Manufacturing Technology XXXI-J. Gao 2017-08-23 The urgent need to keep pace with the accelerating globalization of manufacturing in the 21st century has produced rapid advances in manufacturing research, development and innovation. This book presents the proceedings of the 15th International Conference on Manufacturing Research (ICMR 2017), which also incorporated the 32nd National Conference on Manufacturing Research (NCMR) and was held at the University of Greenwich, London, UK, in September 2017. The conference brings together a broad community of researchers who share the common goal of developing and managing the technologies and operations key to sustaining the success of manufacturing businesses. The book is divided into 13 parts, covering topics such as advanced manufacturing technologies (including additive, ultra-precision and nano-manufacturing); manufacturing systems (digital and cyber-physical systems); product design and development (including lifecycle management and supply-chain collaboration); information and communication (including innovation and knowledge management); and manufacturing management (including lean, sustainable and cost engineering). With its comprehensive overview of current developments, this book will be of interest to all those involved in manufacturing today.

Intelligent Techniques and Applications in Science and Technology-Subhojit Dawn 2020-03-02 This book provides innovative ideas on achieving sustainable development and using green technologies to conserve our ecosystem. Innovation is the successful exploitation of a new idea. Through innovation, we can achieve MORE while using LESS. Innovations in science & technology will not only help mankind as a whole, but also contribute to the economic growth of individual countries. It is essential that the global problem of environmental degradation be addressed immediately, and thus, we need to rethink the concept of sustainable development. Indeed, new environmentally friendly technologies are fundamental to attaining sustainable development. The book shares a wealth of innovative green technological ideas on how to preserve and improve the quality of the environment, and how to establish a more resource-efficient and sustainable society. The book

provides an interdisciplinary approach to addressing various technical issues and capitalizing on advances in computing & optimization for scientific & technological development, smart information, communication, bio-monitoring, smart cities, food quality assessment, waste management, environmental aspects, alternative energies, sustainable infrastructure development, etc. In short, it offers valuable information and insights for budding engineers, researchers, upcoming young minds and industry professionals, promoting awareness for recent advances in the various fields mentioned above.

Mathematical and Engineering Methods in Computer Science-Zdeněk Kotásek 2012-01-28 This volume constitutes the thoroughly refereed post-conference proceedings of the 7th International Doctoral Workshop on Mathematical and Engineering Methods in Computer Science, MEMICS 2011, held in Lednice, Czech Republic, on October 14-16, 2011. The 13 revised full papers presented together with 6 invited talks were carefully reviewed and selected from 38 submissions. The papers address all current issues of mathematical and engineering methods in computer science, especially: software and hardware dependability, computer security, computer-aided analysis and verification, testing and diagnostics, simulation, parallel and distributed computing, grid computing, computer networks, modern hardware and its design, non-traditional computing architectures, software engineering, computational intelligence, quantum information processing, computer graphics and multimedia, signal, text, speech, and image processing, and theoretical computer science.

Transactions on Computational Science XXXV-Marina L. Gavrilova 2020-02-17 The LNCS journal Transactions on Computational Science reflects recent developments in the field of Computational Science, conceiving the field not as a mere ancillary science but rather as an innovative approach supporting many other scientific disciplines. The journal focuses on original high-quality research in the realm of computational science in parallel and distributed environments, encompassing the facilitating theoretical foundations and the applications of large-scale computations and massive data processing. It addresses researchers and practitioners in areas ranging from aerospace to biochemistry, from electronics to geosciences, from mathematics to software architecture, presenting verifiable computational methods, findings, and solutions, and enabling industrial users to apply techniques of leading-edge, large-scale, high performance computational methods. This, the 35th issue of the Transactions on Computational Science, focusses on signal processing and security in distributed systems. The topics covered include classification of visual attention levels using microsaccades; analysis of textual content using Eyegaze; automatic car-accident detection and passenger counting; face recognition; secure data fusion in IoT; business compliance using goal models; and microfluidic executions.

Higher Engineering Science-W Bolton 2012-08-21 Higher Engineering Science aims to provide students with an understanding of the scientific principles that underpin the design and operation of modern engineering systems. It builds a sound scientific foundation for further study of electronics, electrical engineering and mechanical engineering. The text is ideal for students, including numerous features designed to aid student learning and put theory into practice: * Worked examples with step-by-step guidance and hints * Highlighted key points, applications and practical activities * Self-check questions included throughout the text * Problems sections with full answers supplied Further worked examples, applications, case studies and assignments have also been incorporated into this second edition. Assuming a minimum of prior knowledge, the book has been written to suit courses with an intake from a range of educational backgrounds. The new edition has been designed specifically to cater for the compulsory core Engineering Science unit for HNC and HND qualifications, and updated throughout to match the syllabus of the new BTEC Higher National Engineering schemes from Edexcel. It will also prove ideal for introductory science modules in degree courses.

Proceedings of the Third International Conference on Computational Intelligence and Informatics-K. Srujan Raju

NCCS Science Highlights- 1993

Materials Selection in Mechanical Design-Michael F. Ashby 2010-10-29 Understanding materials, their properties and behavior is fundamental to engineering design, and a key application of materials science. Written for all students of engineering, materials science and design, this book describes the procedures for material selection in mechanical design in order to ensure that the most suitable materials for a given application are identified from the full range of materials and section shapes available. Extensively revised for this fourth edition, Materials Selection in Mechanical Design is recognized as one of the leading materials selection texts, and provides a unique and genuinely innovative resource. Features new to this edition * Material property charts now in full color throughout * Significant revisions of chapters on engineering materials, processes and process selection, and selection of material and shape while retaining the book's hallmark structure and subject content * Fully revised chapters on hybrid materials and materials and the environment * Appendix on data and information for engineering materials fully updated * Revised and expanded end-of-chapter exercises and additional worked examples Materials are introduced through their properties; materials selection charts (also available on line) capture the important features of all materials, allowing rapid retrieval of information and application of selection techniques. Merit indices, combined with charts, allow optimization of the materials selection process. Sources of material property

data are reviewed and approaches to their use are given. Material processing and its influence on the design are discussed. New chapters on environmental issues, industrial engineering and materials design are included, as are new worked examples, exercise materials and a separate, online Instructor's Manual. New case studies have been developed to further illustrate procedures and to add to the practical implementation of the text. * The new edition of the leading materials selection text, now with full color material property charts * Includes significant revisions of chapters on engineering materials, processes and process selection, and selection of material and shape while retaining the book's hallmark structure and subject content * Fully revised chapters on hybrid materials and materials and the environment * Appendix on data and information for engineering materials fully updated * Revised and expanded end-of-chapter exercises and additional worked examples

Nuclear Science Abstracts- 1963

Analog Circuit Design-Jim Williams 2016-06-30 Analog Circuit Design

Electronic Circuits, Systems and Standards-Ian Hickman 2016-06-01 Electronic Circuits, Systems and Standards: The Best of EDN is a collection of 66 EDN articles. The topics covered in this collection are diverse but all are relevant to controlled circulation electronics. The coverage of the text includes topics about software and algorithms, such as simple random number algorithm; simple log algorithm; and efficient algorithm for repeated FFTs. The book also tackles measurement related topics, including test for identifying a Gaussian noise source; enhancing product reliability; and amplitude-locked loop speeds filter test. The text will be useful to students and practitioners of electronics related discipline, such as electronics engineering, computer engineering, and computer science. Computer and electronics hobbyists and enthusiasts will also benefit from the book.

Network Science and Cybersecurity-Robinson E. Pino 2013-06-14 Network Science and Cybersecurity introduces new research and development efforts for cybersecurity solutions and applications taking place within various U.S. Government Departments of Defense, industry and academic laboratories. This book examines new algorithms and tools, technology platforms and reconfigurable technologies for cybersecurity systems. Anomaly-based intrusion detection systems (IDS) are explored as a key component of any general network intrusion detection service, complementing signature-based IDS components by attempting to identify novel attacks. These attacks may not yet be known or have well-developed signatures. Methods are also suggested to simplify the construction of metrics in such a manner that they retain their ability to effectively cluster data, while simultaneously easing human interpretation of outliers. This is a professional book for practitioners or government employees working in cybersecurity, and can also be used as a reference. Advanced-level students in computer science or electrical engineering studying security will also find this book useful .

Management Science- 1992 Issues for Feb. 1965-Aug. 1967 include Bulletin of the Institute of Management Sciences.

Science of Microscopy-P.W. Hawkes 2008-08-29 This fully corrected second impression of the classic 2006 text on microscopy runs to more than 1,000 pages and covers up-to-the-minute developments in the field. The two-volume work brings together a slew of experts who present comprehensive reviews of all the latest instruments and new versions of the older ones, as well as their associated operational techniques. The chapters draw attention to their principal areas of application. A huge range of subjects are benefiting from these new tools, including semiconductor physics, medicine, molecular biology, the nanoworld in general, magnetism, and ferroelectricity. This fascinating book will be an indispensable guide for a wide range of scientists in university laboratories as well as engineers and scientists in industrial R&D departments.

Artificial Intelligence Research and Development-E. Armengol 2015-10-01 Since it was formed in 1994, the Catalan Association for Artificial Intelligence (ACIA) has been promoting cooperation between researchers in artificial intelligence within the Catalan speaking community. The association now holds an annual conference in the Catalan region, which aims to foster discussion of the latest developments in artificial intelligence within the community of Catalan countries, as well as amongst members of the wider AI community. This book presents the proceedings of the 18th International Conference (CCIA 2015), held in Valencia, Spain, in October 2015. It contains full versions of the peer reviewed papers presented at the conference, as well as shorter poster contributions. In addition to this year’s dominant research trends of classification, decision support systems and data mining, many other topics are covered, ranging from theoretical aspects to descriptions of real applications. This overview of current work in the Catalan artificial intelligence community and of the collaboration between ACIA members and the AI community worldwide will be of interest to all those working in the field of artificial intelligence.

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