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KEY=STEP - KELLEY ALIJAH

Research and Development in Intelligent Systems XXIX

Incorporating Applications and Innovations in Intelligent Systems XX Proceedings of AI-2012, The Thirty-second SGA International Conference on Innovative Techniques and Applications of Artificial Intelligence

Springer Science & Business Media The papers in this volume are the refereed papers presented at AI-2012, the Thirty-second SGA International Conference on Innovative Techniques and Applications of Artificial Intelligence, held in Cambridge in December 2012 in both the technical and the application streams. They present new and innovative developments and applications, divided into technical stream sections on Data Mining, Data Mining and Machine Learning, Planning and Optimisation, and Knowledge Management and Prediction, followed by application stream sections on Language and Classification, Recommendation, Practical Applications and Systems, and Data Mining and Machine Learning. The volume also includes the text of short papers presented as posters at the conference. This is the twenty-ninth volume in the Research and Development in Intelligent Systems series, which also incorporates the twentieth volume in the Applications and Innovations in Intelligent Systems series. These series are essential reading for those who wish to keep up to date with developments in this important field.

Geotechnics for Sustainable Infrastructure Development

Springer Nature This book presents 09 keynote and invited lectures and 177 technical papers from the 4th International Conference on Geotechnics for Sustainable Infrastructure Development, held on 28-29 Nov 2019 in Hanoi, Vietnam. The papers come from 35 countries of the five different continents, and are grouped in six conference themes: 1) Deep Foundations; 2) Tunnelling and Underground Spaces; 3) Ground Improvement; 4) Landslide and Erosion; 5) Geotechnical Modelling and Monitoring; and 6) Coastal Foundation Engineering. The keynote lectures are devoted by Prof. Harry Poulos (Australia), Prof. Adam Bezuijen (Belgium), Prof. Delwyn Fredlund (Canada), Prof. Lidija Zdravkovic (UK), Prof. Masaki Kitazume (Japan), and Prof. Mark Randolph (Australia). Four invited lectures are given by Prof. Charles Ng, ISSMGE President, Prof. Eun Chul Shin, ISSMGE Vice-President for Asia, Prof. Norikazu Shimizu (Japan), and Dr. Kenji Mori (Japan).

Clean Energy for Sustainable Development

Comparisons and Contrasts of New Approaches

Academic Press Clean Energy for Sustainable Development: Comparisons and Contrasts of New Approaches presents information on the fundamental challenge that the energy sector faces with regard to meeting the ever growing demand for sustainable, efficient, and cleaner energy. The book compares recent developments in the field of energy technology, clean and low emission energy, and energy efficiency and environmental sustainability for industry and academia. Rasul, Azad and Sharma, along with their team of expert contributors, provide high-end research findings on relevant industry themes, including clean and sustainable energy sources and technologies, renewable energy technologies and their applications, biomass and biofuels for sustainable environment, energy system and efficiency improvement, solar thermal applications, and the environmental impacts of sustainable energy systems. This book uses global institutes and case studies to explore and analyze technological advancements alongside practical applications. This approach helps readers to develop and affirm a better understanding of the relevant concepts and solutions necessary to achieve clean energy and sustainable development in both medium and large-scale industries. Compares in-depth research on a wide range of clean technologies, from global institutes in Australia, Europe, and India Evaluates the recent developments in clean technologies against the efficiency of tried and tested applications Considers case studies on the advancements of sustainable energy into industry from around the world

Large-Scale Complex IT Systems. Development, Operation and Management

17th Monterey Workshop 2012, Oxford, UK, March 19-21, 2012, Revised Selected Papers

Springer This book presents the thoroughly refereed and revised post-workshop proceedings of the 17th Monterey Workshop, held in Oxford, UK, in March 2012. The workshop explored the challenges associated with the Development, Operation and Management of Large-Scale complex IT Systems. The 21 revised full papers presented were significantly extended and improved by the insights gained from the productive and lively discussions at the workshop, and the feedback from the post-workshop peer reviews.

Child Centred Planning in the Early Years Foundation Stage

Learning Matters Planning for learning in the EYFS is not a simple task. Planning can be daunting, time consuming and ineffective. It is easy to fall into the trap of planning for activities and topics, rather than planning for learning. Be better, more confident and effective at planning for learning in the EYFS with this book. *Explore the wider context of children's learning *Make professional, informed decisions to support all children *Use statutory and non-statutory guidance appropriately *Be responsive to children's individual needs *Capitalize on learning opportunities as they arise *Be an advocate for child-centred planning

Globalization and Development

Entrepreneurship, Innovation, Business and Policy Insights from Asia and Africa

Springer Over time, globalization has evolved into a shared journey of humanity, involving entrepreneurship, innovation, business and policy advances around the world. This book explores the link between globalization and development, and reveals the dynamics, strengths and weaknesses, trends in and implications of globalization in Asia and Africa. Presenting papers by respected experts in the field, it shares essential insights into the status quo of globalization processes and structures, identifies the opportunities and threats that globalization faces, and sheds light on the path to global peace. Topics range from using fair-trade practices to compensate for the impacts of globalization; to lessons learned for tomorrow from Tunisia, Morocco and Jordan; as well as emergent topics such as global entrepreneurship capacity and developing the Chinese economy overseas.

Recent Trends in Algebraic Development Techniques

21st International Workshop, WADT 2012, Salamanca, Spain, June 7-10, 2012, Revised Selected Papers

Springer This book constitutes the thoroughly refereed post-conference proceedings of the 21st International Workshop on Algebraic Development Techniques, WADT 2012, held in June 2012, in Salamanca, Spain. The 16 revised papers presented were carefully reviewed and selected from 25 presentations. The workshop deals with the following topics: foundations of algebraic specification; other approaches to formal specification including process calculi and models of concurrent, distributed and mobile computing; specification languages, methods, and environments; semantics of conceptual modeling methods and techniques; model-driven development; graph transformations, term rewriting and proof systems; integration of formal specification techniques; formal testing and quality assurance; validation, and verification.

The Risk of Trading

Mastering the Most Important Element in Financial Speculation

John Wiley & Sons Develop the skills to manage risk in the high-stakes world of financial speculation **The Risk of Trading** is a practical resource that takes an in-depth look at one of the most challenging factors of trading—risk management. The book puts a magnifying glass on the issue of risk, something that every trader needs to understand in order to be successful. Most traders look at risk in terms of a "stop-loss" that enables them to exit a losing trade quickly. In **The Risk of Trading**, Michael Toma explains that risk is ever-present in every aspect of trading and advocates that traders adopt a more comprehensive view of risk that encompasses the strategic trading plan, account size, drawdowns, maximum possible losses, psychological capital, and crisis management. Shows how to conduct a detailed statistical analysis of an individual's trading methodology through back-testing and real-time results so as to identify when the methodology may be breaking down in actual trading Reveals why traders should think of themselves as project managers who are strategically managing risk The book is based on the author's unique 'focus on the risk' approach to trading using data-driven risk statistical analytics Using this book as a guide, traders can operate more as business managers and learn how to avoid market-busting losses while achieving consistently good results.

Product Development Projects

Dynamics and Emergent Complexity

Springer This book presents an analysis of the dynamics and the complexity of new product development projects which are organized according to the concept of concurrent engineering. The approach of the authors includes both a theoretical and an empirical treatment of the topic, based on the theory of design structure matrices. Readers will discover diverse perspectives and mathematical models, as well as an extensive discussion of two case studies.

Liquid Scintillation Counting Recent Applications and Development

Sample Preparation And Applications

Elsevier **Liquid Scintillation Counting: Recent Applications and Development, Volume II. Sample Preparation and Applications** documents the proceedings of the International Conference on Liquid Scintillation Counting, Recent Applications and Development, held on August 21-24, 1979 at the University of California, San Francisco. The conference brought together 180 scientists from 15 countries who share a common interest in promoting a better understanding of liquid scintillation science and technology. Liquid scintillation counting is one branch of nuclear metrology that many scientists of various disciplines use in tracing and quantification in their investigatory studies. The proceedings, consisting of 14 sections, include 76 of the 77 invited and contributed papers presented at the conference. The first volume contains 37 papers mainly dealing with the physical aspects of liquid scintillation science and technology. The present volume contains papers that cover sample preparation, flow counting, and emulsion (solgel) counting. It also includes studies on applications of liquid scintillation counting, such as chemiluminescence and bioluminescence, environmental monitoring, and biomedical and radioimmunoassays.

Discrimination and Diversity: Concepts, Methodologies, Tools, and Applications

Concepts, Methodologies, Tools, and Applications

IGI Global The growing presence of discrimination and isolation has caused negative changes to human interactions. With the ubiquity of these practices, there is now an increasingly urgent need to close this divide. **Discrimination and Diversity: Concepts, Methodologies, Tools, and Applications** provides a critical look at race, gender, and modern day discrimination and solutions to creating sustainable diversity across numerous contexts and fields. Including innovative studies on anti-discrimination measures, gender discrimination, and tolerance, this multi-volume book is an ideal source for professionals, practitioners, graduate students, academics, and researchers working in equality, as well as managers and those in leadership roles.

Fungi Bio-prospects in Sustainable Agriculture, Environment and Nano-technology

Volume 3: Fungal Metabolites, Functional Genomics and Nano-technology

Academic Press **Fungi Bio-prospects in Sustainable Agriculture: Fungal metabolites and Nano-technology** is a three-volume series that has been designed to explore the huge potential of the many diverse applications of fungi to human life. The series unveils the latest developments and scientific advances in the study of the biodiversity of fungi, extremophilic fungi, and fungal secondary metabolites and enzymes, while also presenting cutting-edge molecular tools used to study fungi. Readers will learn all about the recent progress and future potential applications of fungi in agriculture, environmental remediation, industry, food safety, medicine, and nanotechnology. Volume 3 provides a comprehensive account of fungal metabolites, including bioactive and host origin compounds, along with other biomolecules, and mycotoxins. This book includes the applications, limitations, and prospects of working with fungal secondary metabolites. The authors explore fungi in the myco-mediated synthesis of nanoparticles along with their biotechnological, industrial, and agricultural uses. This book also discusses advancements in medical mycology for the diagnosis and treatment of fungal infections. Furthermore, this book provides up-to-date and in-depth knowledge about the adoption of advanced CRISPR-Cas9 technology in fungi for gene editing Covers the secondary metabolites of fungi including bioactive compounds, mycotoxins and other biomolecules Provides insight into the fungal mediated biosynthesis of nanoparticles and its various applications in diverse fields Describes advances in diagnosis and treatment of human fungal infections Presents the latest information on applications of the CRISPR-Cas9 system in fungi

Epstein's Inborn Errors of Development

The Molecular Basis of Clinical Disorders of Morphogenesis

Oxford University Press Preceded by: *Inborn errors of development* / edited by Charles J. Epstein, Robert P. Erickson, Anthony Wynshaw-Boris. 2nd ed. 2008.

Epstein's Inborn Errors of Development

The Molecular Basis of Clinical Disorders of Morphogenesis

Oxford University Press This third edition of *Epstein's Inborn Errors of Development* provides essays on pathways of development and thoughtful reviews of dysmorphic syndromes for which the causative gene has been identified. The authors of the chapters on each disorder have provided in depth analyses of the role of the gene in the relevant developmental pathway and the mechanism by which mutations in the gene cause the developmental pathology.

Contributions to the Development of Gasdynamics

Selected Papers, Translated on the Occasion of K. Oswatitsch's 70th Birthday

[Springer Science & Business Media](#) Ever since airplane speeds started to approach the speed of sound, the study of compressible flow problems attracted much talent and support in the major industrialized countries. Today, gas dynamics is a mature branch of science whose many aspects and applications are much too numerous to be mastered by a single person or to be described in a few volumes. This book commemorates the 70th birthday of a great pioneer and teacher of gas dynamics, Dr. Klaus Oswatitsch, Professor of Fluid Mechanics at the Technical University of Vienna and former Director of the Institute for Theoretical Gas Dynamics, Deutsche Forschungs-und Versuchsanstalt für Luft-und Raumfahrt. Several reasons motivated us to prepare an English translation of Oswatitsch's selected scientific papers. First, we hope that a book containing his major papers will be welcome as a valuable reference text in gas dynamics. Oswatitsch's work is frequently used in the literature in one form or another, but it is usually quite time-consuming for the English speaking reader to consult the original texts. As a result, reference to and understanding of his papers is often incomplete. For example, Oswatitsch's formulation of the equivalence rule hardly ever is quoted in recent textbooks, although it preceded declassification of Whitcomb's results by several years. Further more, his papers contain much information, which has not yet been fully appreciated in the Anglo-American literature.

Microsoft SQL Server 2012 Step by Step

[Pearson Education](#) Your hands-on, step-by-step guide to building applications with Microsoft SQL Server 2012 Teach yourself the programming fundamentals of SQL Server 2012—one step at a time. Ideal for beginning SQL Server database administrators and developers, this tutorial provides clear guidance and practical, learn-by-doing exercises for building database solutions that solve real-world business problems. Discover how to: Install and work with core components and tools Create tables and index structures Manipulate and retrieve data Secure, manage, back up, and recover databases Apply techniques for building high-performing applications Use clustering, database mirroring, and log shipping

Distributed Embedded Controller Development with Petri Nets

Application to Globally-Asynchronous Locally-Synchronous Systems

[Springer](#) This book describes a model-based development approach for globally-asynchronous locally-synchronous distributed embedded controllers. This approach uses Petri nets as modeling formalism to create platform and network independent models supporting the use of design automation tools. To support this development approach, the Petri nets class in use is extended with time-domains and asynchronous-channels. The authors' approach uses models not only providing a better understanding of the distributed controller and improving the communication among the stakeholders, but also to be ready to support the entire lifecycle, including the simulation, the verification (using model-checking tools), the implementation (relying on automatic code generators), and the deployment of the distributed controller into specific platforms. Uses a graphical and intuitive modeling formalism supported by design automation tools; Enables verification, ensuring that the distributed controller was correctly specified; Provides flexibility in the implementation and maintenance phases to achieve desired constraints (high performance, low power consumption, reduced costs), enabling porting to different platforms using different communication nodes, without changing the underlying behavioral model.

CAD Systems Development

Tools and Methods

[Springer Science & Business Media](#) Future computer aided design systems will themselves be designed using tools and methods that are still under development. This book presents the latest progress in research on the tools and methods needed to develop those CAD systems. The topics covered include algorithmic aspects, the product data and development process, future CAD architectures, feature based modeling and automatic feature recognition, complex surface design, and system implementation issues. The book contains contributions by the world's leading experts in the field of CAD technology from both universities and industry. The contributions are based on lectures given at the International Conference and Research Center for Computer Science, Schloss Dagstuhl, Germany.

Pro Office 365 Development

[Apress](#) Pro Office 365 Development is a practical, hands-on guide to building cloud-based solutions using the Office 365 platform. This groundbreaking offering from Microsoft provides enterprise-class collaborative solutions at an affordable price, and this book shows you how to use the Office 365 platform to easily build amazing custom applications, including coding for Excel Services, Microsoft Access, and SharePoint Online. This book provides everything you'll need to start developing custom solutions. You'll find step-by-step instructions for providing custom features using the cloud-based services, SharePoint Online, Exchange Online and Lync Online. There are lots of sample programs using Windows Presentation Foundation (WPF), JavaScript and Silverlight. Whether you want to build desktop client applications or browser-only solutions with Microsoft's new cloud-based productivity offering, this book will show you how to do it. Develop SharePoint solutions, including declarative workflows Use Access and Excel services to quickly build SharePoint sites Build content-sensitive collaborative solutions with instant messaging and video conferencing

Phase II Clinical Development of New Drugs

[Springer](#) This book focuses on how to appropriately plan and develop a Phase II program, and how to design Phase II clinical trials and analyze their data. It provides a comprehensive overview of the entire drug development process and highlights key questions that need to be addressed for the successful execution of Phase II, so as to increase its success in Phase III and for drug approval. Lastly it warns project team members of the common potential pitfalls and offers tips on how to avoid them.

Principles of Quantitative Development

[John Wiley & Sons](#) Principles of Quantitative Development is a practical guide to designing, building and deploying a trading platform. It is also a lucid and succinct exposé on the trade life cycle and the business groups involved in managing it, bringing together the big picture of how a trade flows through the systems, and the role of a quantitative professional in the organization. The book begins by looking at the need and demand for in-house trading platforms, addressing the current trends in the industry. It then looks at the trade life cycle and its participants, from beginning to end, and then the functions within the front, middle and back office, giving the reader a full understanding and appreciation of the perspectives and needs of each function. The book then moves on to platform design, addressing all the fundamentals of platform design, system architecture, programming languages and choices. Finally, the book focuses on some of the more technical aspects of platform design and looks at traditional and new languages and approaches used in modern quantitative development. The book is accompanied by a CD-ROM, featuring a fully working option pricing tool with source code and project building instructions, illustrating the design principles discussed, and enabling the reader to develop a mini-trading platform. The book is also accompanied by a website <http://pqd.thulasidas.com> that contains updates and companion materials.

Economic Growth and Development in Ethiopia

[Springer](#) This volume is a collection of selected empirical studies on determinants of economic growth and development in Ethiopia. The core argument for editing this book is to provide an up-to-date picture of the state and patterns of growth and development in Ethiopia. Ethiopia has been under focus in the past due to draughts, war, famine, development changes and the effects of global economic crisis in the country. A main contribution of this volume is that it helps identify selected important determinants of growth and development in Ethiopia and provides an estimation of their effects using up-to-date data, modelling and methods. Taken together the studies provide a comprehensive picture of the state of growth and development, their measurements, causal relationships and evaluation of efficient policies and practices in achieving progress in Ethiopia. The issues covered represent major challenges to the government and development organizations who are aiming at achieving higher growth and alleviating poverty in the country. The studies cover transition from rural agriculture to urban industry and the development of services.

Smart Technologies for Energy, Environment and Sustainable Development

Select Proceedings of ICSTEESD 2020

[Springer Nature](#) This book contains select proceedings of the International Conference on Smart Technologies for Energy, Environment, and Sustainable Development (ICSTEESD 2020). The book is broadly divided into the themes of energy, environment, and sustainable development; and discusses the significance and solicitations of intelligent technologies in the domain of energy and environmental systems engineering. Topics covered in this book include sustainable energy systems including renewable technologies, energy efficiency, techno-economics of energy system and policies, integrated energy system planning, environmental management, energy efficient buildings and communities, sustainable transportation, smart manufacturing processes, etc. The book will be a valuable reference for young researchers, professionals, and policy makers working in the areas of energy, environment and sustainable development.

Guide to Software Development Designing and Managing the Life Cycle

[Springer Science & Business Media](#) This book addresses how best to make build vs. buy decisions, and what effect such decisions have on the software development life cycle (SDLC). Offering an integrated approach that includes important management and decision practices, the text explains how to create successful solutions that fit user and customer needs, by mixing different SDLC methodologies. Features: provides concrete examples and effective case studies; focuses on the skills and insights that distinguish successful software implementations; covers management issues as well as technical considerations, including how to deal with political and cultural realities in organizations; identifies many new alternatives for how to manage and model a system using sophisticated analysis tools and advanced management practices; emphasizes how and when professionals can best apply these tools and practices, and what benefits can be derived from their application; discusses searching for vendor solutions, and vendor contract considerations.

The Algorithmic Beauty of Plants

[Springer Science & Business Media](#) Now available in an affordable softcover edition, this classic in Springer's acclaimed Virtual Laboratory series is the first comprehensive account of the computer simulation of plant development. 150 illustrations, one third of them in colour, vividly demonstrate the spectacular results of the algorithms used to model plant shapes and developmental processes. The latest in computer-generated images allow us to look at plants growing, self-replicating, responding to external factors and even mutating, without becoming entangled in the underlying mathematical formulae involved. The authors place particular emphasis on Lindenmayer systems - a notion conceived by one of the authors, Aristid Lindenmayer, and internationally recognised for its exceptional elegance in modelling biological phenomena. Nonetheless, the two authors take great care to present a survey of alternative methods for plant modelling.

Case Studies in Modern Drug Discovery and Development

[John Wiley & Sons](#) Learn why some drug discovery and development efforts succeed . . . and others fail Written by international experts in drug discovery and development, this book sets forth carefully researched and analyzed case studies of both successful and failed drug discovery and development efforts, enabling medicinal chemists and pharmaceutical scientists to learn from actual examples. Each case study focuses on a particular drug and therapeutic target, guiding readers through the drug discovery and development process, including drug design rationale, structure-activity relationships, pharmacology, drug metabolism, biology, and clinical studies. Case Studies in Modern Drug Discovery and Development begins with an introductory chapter that puts into perspective the underlying issues facing the pharmaceutical industry and provides insight into future research opportunities. Next, there are fourteen detailed case studies, examining: All phases of drug discovery and development from initial idea to commercialization Some of today's most important and life-saving medications Drugs designed for different therapeutic areas such as cardiovascular disease, infection, inflammation, cancer, metabolic syndrome, and allergies Examples of prodrugs and inhaled drugs Reasons why certain drugs failed to advance to market despite major research investments Each chapter ends with a list of references leading to the primary literature. There are also plenty of tables and illustrations to help readers fully understand key concepts, processes, and technologies. Improving the success rate of the drug discovery and development process is paramount to the pharmaceutical industry. With this book as their guide, readers can learn from both successful and unsuccessful efforts in order to apply tested and proven science and technologies that increase the probability of success for new drug discovery and development projects.

Key Performance Indicators for Government and Non Profit Agencies

Implementing Winning KPIs

[John Wiley & Sons](#) Winning techniques and strategies for nonprofits and government agencies in creating successful and critical key performance indicators By exploring measures that have transformed businesses, David Parmenter has developed a methodology that is breathtaking in its simplicity and yet profound in its impact. Key Performance Indicators for Government and Nonprofit Agencies: Implementing Winning KPIs is a proactive guide representing a significant shift in the way KPIs are developed and used, with an abundance of implementation tools for government agencies and nonprofit groups. Implementation variations and short cuts for government and not-for-profit organizations How to brainstorm performance measures Templates for reporting performance measures A resource kit for a consultant who is acting as a coach / facilitator to the in-house project team Also by David Parmenter: Key Performance Indicators: Developing, Implementing, and Using Winning KPIs, Second Edition Filled with numerous case studies and checklists to help readers develop their KPIs, this book shows government agencies and nonprofits how to select and implement winning key performance indicators to ensure that their performance management initiatives are successful.

Sensory and Consumer Research in Food Product Design and Development

[John Wiley & Sons](#) During the past thirty years, companies have recognized the consumer as the key driver for business and product success. This recognition has, in turn, generated its own drivers: sensory analysis and marketing research, leading first to a culture promoting the expert and then evolving into the systematic acquisition of consumer-relevant information to build businesses. Sensory and Consumer Research in Food Product Design and Development is the first book to present, from the business viewpoint, the critical issues faced by business leaders from both the research development and business development perspective. This popular volume, now in an updated and expanded second edition, presents a unique perspective afforded by the author team of Moskowitz, Beckley, and Resurreccion: three leading practitioners in the field who each possess both academic and business acumen. Newcomers to the field will be introduced to systematic experimentation at the very early stages, to newly emerging methods for data acquisition/knowledge development, and to points of view employed by successful food and beverage companies. The advanced reader will find new ideas, backed up by illustrative case histories, to provide another perspective on commonly encountered problems and their practical solutions. This book is aimed at professionals in all sectors of the food and beverage industry. Sensory and Consumer Research in Food Product Design and Development is especially important for those business and research professionals involved in the early stages of product development, where business opportunity is often the greatest.

iPhone and iPad Apps for Absolute Beginners

[Apress](#) Provides information on building applications for the iPhone and the iPad, covering such topics as code, multiple graphics, table views, arrays, MapKit.

The Proteins of Plastid Nucleoids – Structure, Function and Regulation

[Frontiers Media SA](#) Plastids are plant cell-specific organelles of endosymbiotic origin that contain their own genome, the so-called plastome. Its proper expression is essential for faithful chloroplast biogenesis during seedling development and for the establishment of photosynthetic and other biosynthetic functions in the organelle. The structural organisation, replication and expression of this plastid genome, thus, has been studied for many years, but many essential steps are still not understood. Especially, the structural and functional involvement of various regulatory proteins in these processes is still a matter of research. Studies from the last two decades demonstrated that a plethora of proteins act as specific regulators during replication, transcription, post-transcription, translation and post-translation accommodating a proper inheritance and expression of the plastome. Their number exceeds by far the number of the genes encoded by the plastome suggesting that a strong evolutionary pressure is maintaining the plastome in its present stage. The plastome gene organisation in vascular plants was found to be highly conserved, while algae exhibit a certain flexibility in gene number and organisation. These regulatory proteins are, therefore, an important determinant for the high degree of conservation in plant plastomes. A deeper understanding of individual roles and functions of such proteins would improve largely our understanding of plastid biogenesis and function, a knowledge that will be essential in the development of more efficient and productive plants for agriculture. The latter represents a major socio-economic need of fast growing mankind that asks for increased supply of food, fibres and biofuels in the coming decades despite the threats exerted by global change and fast spreading urbanisation.

Parallel Programming with Intel Parallel Studio XE

[John Wiley & Sons](#) Optimize code for multi-core processors with Intel's Parallel Studio Parallel programming is rapidly becoming a "must-know" skill for developers. Yet, where to start? This teach-yourself tutorial is an ideal starting point for developers who already know Windows C and C++ and are eager to add parallelism to their code. With a focus on applying tools, techniques, and language extensions to implement parallelism, this essential resource teaches you how to write programs for multicore and leverage the power of multicore in your programs. Sharing hands-on case studies and real-world examples, the authors examine the challenges of each project and show you how to overcome them. Explores conversion of serial code to parallel Focuses on implementing Intel Parallel Studio Highlights the benefits of using parallel code Addresses error and performance optimization of code Includes real-world scenarios that illustrate the techniques of advanced parallel programming situations Parallel Programming with Intel Parallel Studio dispels any concerns of difficulty and gets you started creating faster code with Intel Parallel Studio.

Proceedings of the International Field Exploration and Development Conference 2017

Springer This book presents selected papers from the 7th International Field Exploration and Development Conference (IFEDC 2017), which focus on upstream technologies used in oil & gas development, the principles of the process, and various design technologies. The conference not only provides a platform for exchanging lessons learned, but also promotes the development of scientific research in oil & gas exploration and production. The book will benefit a broad readership, including industry experts, researchers, educators, senior engineers and managers.

C-Type Lectins—Advances in Research and Application: 2013 Edition

ScholarlyPaper

ScholarlyEditions C-Type Lectins—Advances in Research and Application: 2013 Edition is a ScholarlyPaper™ that delivers timely, authoritative, and intensively focused information about ZZZAdditional Research in a compact format. The editors have built C-Type Lectins—Advances in Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about ZZZAdditional Research in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of C-Type Lectins—Advances in Research and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Hair Bundles - Development, Maintenance, and Function

Frontiers Media SA

Artificial Intelligence Research and Development

Proceedings of the 15th International Conference of the Catalan Association for Artificial Intelligence

IOS Press One hundred years after the birth of Alan Turing, the great pioneer of computer science, artificial intelligence has become so much a part of everyday life that it is hard to imagine the world without it. This book contains papers from the 15th International Conference of the Catalan Association of Artificial Intelligence (CCIA 2012), held at the Universitat d'Alicant, Spain, in October 2012. Since 1994 the Catalan Association of Artificial Intelligence (ACIA) has fostered cooperation between researchers in artificial intelligence within the Catalan speaking community. The annual CCIA is its international conference, a platform where not only researchers from Catalan speaking countries, but also those working in artificial intelligence worldwide, have found a place to show, discuss and publish the results of their researches and developments. The 23 papers presented here, which include contributions from the AI community all over the world, cover topics such as KDD, DM and machine learning; natural language processing and recommenders; computer vision; robotics; AI for optimization problems and AI applications in the real world. The book also includes the contributions of the two invited keynote speakers at the conference - Oscar Cordón and Eduardo Nebot - which respectively address the subjects of real-world applications of soft artificial intelligence, and challenges of automation and safety in field robotics.

The Extracellular Environment in Controlling Neuronal Migration During Neocortical Development

Frontiers Media SA

Group Technology and Cellular Manufacturing

A State-of-the-Art Synthesis of Research and Practice

Springer Science & Business Media Group Technology and Cellular Manufacturing (GT/CM) have been widely-researched areas in the past 15 years and much progress has been made in all branches of GT/CM. Resulting from this research activity has been a proliferation of techniques for part-machine grouping, engineering data bases, expert system-based design methods for identifying part families, new analytical and simulation tools for evaluating performance of cells, new types of cell incorporating robotics and flexible automation, team-based approaches for organizing the work force and much more; however, the field lacks a careful compilation of this research and its outcomes. The editors of this book have commissioned leading researchers and implementers to prepare specific treatments of topics for their special areas of expertise in this broad-based philosophy of manufacturing. The editors have sought to be global both in coverage of topic matters and contributors. Group Technology and Cellular Manufacturing addresses the needs and interests of three groups of individuals in the manufacturing field: academic researchers, industry practitioners, and students. (1) The book provides an up-to-date perspective, incorporating the advances made in GT/CM during the past 15 years. As a natural extension to this research, it synthesizes the latest industry practices and outcomes to guide research to greater real-world relevance. (2) The book makes clear the foundations of GT/CM from the core elements of new developments which are aimed at reducing developmental and manufacturing lead times, costs, and at improving business quality and performance. (3) Finally, the book can be used as a textbook for graduate students in engineering and management for studying the field of Group Technology and Cellular Manufacturing.

Pedagogical Leadership in Early Childhood Education

Conversations From Across the World

Bloomsbury Publishing Pedagogical leadership views leadership as something separate from formal authority or qualifications, seeing educators' understanding, interpretation and passion as the key lever for continuous improvement in early childhood education (ECE). This book shows how effective pedagogical leadership can create the right conditions for quality ECE provision, to increase motivation and engagement among staff, and impact positively on staff recruitment and retention. Written by a team of international experts based in Australia, Azerbaijan, Estonia, Greece, Finland, Norway, Sweden, the UK and the USA, this book explores pedagogical leadership in ECE in-depth and through an international lens. The chapters address questions including: what is pedagogic leadership?; what does it look like?; what impact can pedagogic leadership have on the everyday work of nurseries and other ECE providers? The contributors cover a range of topics including trauma-responsive pedagogy, child-initiated pedagogies, conflict management, change management theory and social leadership theory.

Evolutionary Origins and Early Development of Number Processing

Academic Press The first volume in this ground-breaking series focuses on the origins and early development of numerical cognition in non-human primates, lower vertebrates, human infants, and preschool children. The text will help readers understand the nature and complexity of these foundational quantitative concepts and skills along with evolutionary precursors and early developmental trajectories. Brings together and focuses the efforts and research of multiple disciplines working in math cognition. The contributors bring vast knowledge and experience to bear on resolving extant substantive and methodological challenges to help advance the field of basic number processing. Introductory sections and summaries will be included to provide background for non-specialist readers.

Form-Based Codes

A Guide for Planners, Urban Designers, Municipalities, and Developers