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**Advances In Coastal And Ocean Engineering, Vol 5 IGI Global**

Experts from Andersen Consulting show you how to combine computing, communications, and knowledge to deliver a uniquely new-and entirely indispensable-competitive advantage. Lead, Follow, or get out of the way Your company's ability to sustain a competitive advantage is in jeopardy. Your competitors can imitate and improve faster than ever. You need to find ways to help your company discover and deliver and astounding solution, control its costs, and move on the next astounding solution. Web-based computing is the vital technology enabler for today's most important business opportunities, like E-Commerce. It is also the flexible foundation for future solutions. However, because of the complexities and difficulties it represents, it can be critical hurdle for IT shops and for an entire business. Enterprise Systems Architecture: Building Client/Server and Web-Based Systems is your guide through these complexities as you integrate your technology capabilities with your strategy, people, and processes to deliver astounding solutions. It Introduces you to basic principles and concepts, provides an overview of state-of-the-art in client/server and Web-based computing models, and develops a solid business case for implementation. Acquaints you with various technologies involved and describes a comprehensive network computing architecture. Details crucial analysis, design, and implementation issues, including design specifics for architectures, applications, and network; rollout strategies; and ongoing management of distributed operations. Explores emerging technologies and their likely impact on the future of netcentric computing. Here you'll find detailed information on the architectures and frameworks for network-based computing strategies for designing and implementing solutions strategies and methods for security. It also provides a full framework for testing applications, and in-depth dis

**Vapor Pressure of Zirconium Tetrachloride by Molecular Effusion Springer Science & Business Media**

This book constitutes the refereed proceedings of the 11th International Conference on Evolutionary Multi-Criterion Optimization, EMO 2021 held in Shenzhen, China, in March 2021. The 47 full papers and 14 short papers were carefully reviewed and selected from 120 submissions. The papers are divided into the following topical sections: theory; algorithms; dynamic multi-objective optimization; constrained multi-objective optimization; multi-modal optimization; many-objective optimization; performance evaluations and empirical studies; EMO and machine learning; surrogate modeling and expensive optimization; MCDM and interactive EMO; and applications. Freight Transport Planning and Logistics Springer

**Freight Transport Planning and Logistics Springer**

The idea of modeling the behaviour of phenomena at multiple scales has become a useful tool in both pure and applied mathematics. Fractal-based techniques lie at the heart of this area, as fractals are inherently multiscale objects; they very often describe nonlinear phenomena better than traditional mathematical models. In many cases they have been used for solving inverse problems arising in models described by systems of differential equations and dynamical systems. "Fractal-Based Methods in Analysis" draws together, for the first time in book form, methods and results from almost twenty years of research in this topic, including new viewpoints and results in many of the chapters. For each topic the theoretical framework is carefully explained using examples and applications. The second chapter on basic iterated function systems theory is designed to be used as the basis for a course and includes many exercises. This chapter, along with the three background appendices on topological and metric spaces, measure theory, and basic results from set-valued analysis, make the book suitable for self-study or as a source book for a graduate course. The other chapters illustrate many extensions and applications of fractal-based methods to different areas. This book is intended for graduate students and researchers in applied mathematics, engineering and social sciences. Herb Kunze is a professor of mathematics at the University of Guelph in Ontario. Davide La Torre is an associate professor of mathematics in the Department of Economics, Management and Quantitative Methods of the University of Milan. Franklin Mendivil is a professor of mathematics at Acadia University in Nova Scotia. Edward Vrscay is a professor in the department of Applied Mathematics at the University of Waterloo in Ontario. The major focus of their research is on fractals and the applications of fractals.

**Cyberspace Mimic Defense Springer**

This book constitutes the refereed proceedings of the 4th Australian Conference on Artificial Life, ACAL 2009, held in Melbourne, Australia, in December 2009. The 27 revised full papers presented were carefully reviewed and selected from 60 submissions. Research in Alife covers the main areas of biological behaviour as a metaphor for computational models, computational models that reproduce/duplicate a biological behaviour, and computational models to solve biological problems. Thus, Alife features analyses and understanding of life and nature and helps modeling biological systems or solving biological problems. The papers are organized in topical sections on alife art, game theory, evolution, complex systems, biological systems, social modelling, swarm intelligence, and heuristics.

**Introduction to Information Systems Springer**

Alan Turing pioneered many research areas such as artificial intelligence, computability, heuristics and pattern formation. Nowadays at the information age, it is hard to imagine how the world would be without computers and the Internet. Without Turing's work, especially the core concept of Turing Machine at the heart of every computer, mobile phone and microchip today, so many things on which we are so dependent would be impossible. 2012 is the Alan Turing year -- a centenary celebration of the life and work of Alan Turing. To celebrate Turing's legacy and follow the footsteps of this brilliant mind, we take this golden opportunity to review the latest developments in areas of artificial intelligence, evolutionary computation and metaheuristics, and all these areas can be traced back to Turing's pioneer work. Topics include Turing test, Turing machine, artificial intelligence, cryptography, software testing, image processing, neural networks, nature-inspired algorithms such as bat algorithm and cuckoo search, and multiobjective optimization and many applications. These reviews and

chapters not only provide a timely snapshot of the state-of-art developments, but also provide inspiration for young researchers to carry out potentially ground-breaking research in the active, diverse research areas in artificial intelligence, cryptography, machine learning, evolutionary computation, and nature-inspired metaheuristics. This edited book can serve as a timely reference for graduates, researchers and engineers in artificial intelligence, computer sciences, computational intelligence, soft computing, optimization, and applied sciences.

**Economics of the 1% World Scientific**

**Fundamentals of Advanced Omics Technologies: From Genes to Metabolites** covers the fundamental aspects of the new instrumental and methodological developments in omics technologies, including those related to genomics, transcriptomics, epigenetics, proteomics and metabolomics, as well as other omics approaches such as glycomics, peptidomics and foodomics. The principal applications are presented in the following complementary volume. The chapters discuss in detail omics technologies, DNA microarray analysis, next-generation sequencing technologies, genome-wide analysis of methylation and histone modifications, emerging nanotechniques in proteomics, imaging mass spectrometry in proteomics, recent quantitative proteomics approaches, and advances in high-resolution NMR-based metabolomics, as well as MS-based non-targeted metabolomics and metabolome analysis by CE-MS, global glycomics analyses, foodomics, and high resolution analytical tools for quantitative peptidomics. Key aspects related to chemometrics, bioinformatics, data treatment, data integration and systems biology, deep-sequencing data analysis, statistical approaches for the analysis of microarray data, the integration of transcriptome and metabolome data and computational approaches for visualization and integration of omics data are also covered. - Covers the latest advances in instrumentation, experimental design, sample preparation, and data analysis - Provides thorough explanations and descriptions of specific omics technologies - Describes advanced tools and methodologies for data pretreatment, storage, curation and analysis, as well as data integration

**User-Centred Requirements for Software Engineering Environments CRC Press**

This volume contains the papers, updated in some cases, presented at the first AISMC (Artificial Intelligence and Symbolic Mathematical Computations) conference, held in Karlsruhe, August 3-6, 1992. This was the first conference to be devoted to such a topic after a long period when SMC made no appearance in AI conferences, though it used to be welcome in the early days of AI. Some conferences were held recently on mathematics and AI, but none was directly comparable in scope to this conference. Because of the novelty of the domain, authors were given longer allocations of time than usual in which to present their work. As a result, extended and fruitful discussions followed each paper. The introductory chapter in this book, which was not presented during the conference, reflects in many ways the flavor of these discussions and aims to set out the framework for future activities in this domain of research. In addition to the introduction, the volume contains 20 papers.

**Parallel Problem Solving from Nature - PPSN X Cambridge University Press**

Your expert guide to building modern applications with Visual Basic 2010 Take control of Visual Basic 2010—for everything from basic Windows and web development to advanced multithreaded applications. Written by Visual Basic experts, this handbook provides an in-depth reference on language concepts and features, as well as scenario-based guidance for putting Visual Basic to work. It's ideal whether you're creating new applications with Visual Basic 2010 or upgrading projects built with an earlier version of the language. Discover how to: Use Visual Basic 2010 for Windows Forms and Windows Presentation Foundation projects Build robust code using object-oriented programming techniques, such as classes and types Work with events and delegates—and add your own events to custom classes Program arrays, collections, and other data structures in the Microsoft .NET Framework Solve problems quickly and easily using My namespace in Visual Basic Dive into Microsoft LINQ, including LINQ to XML and LINQ to Entities Tackle threading, multitasking, and multiprocessor development and debugging

**IBM TS7700 Release 4.2 Guide Springer**

Information Control Problems in Manufacturing 2006 contains the Proceedings of the 12th IFAC Symposium on Information Control Problems in Manufacturing (INCOM'2006). This symposium took place in Saint Etienne, France, on May 17-19 2006. INCOM is a tri-annual event of symposia series organized by IFAC and it is promoted by the IFAC Technical Committee on Manufacturing Plant Control. The purpose of the symposium INCOM'2006 was to offer a forum to present the state-of-the-art in international research and development work, with special emphasis on the applications of optimisation methods, automation and IT technologies in the control of manufacturing plants and the entire supply chain within the enterprise. The symposium stressed the scientific challenges and issues, covering the whole product and processes life cycle, from the design through the manufacturing and maintenance, to the distribution and service. INCOM'2006 Technical Program also included a special event on Innovative Engineering Techniques in Healthcare Delivery. The application of engineering and IT methods in medicine is a rapidly growing field with many opportunities for innovation. The Proceedings are composed of 3 volumes: Volume 1 - Information Systems, Control & Interoperability Volume 2 - Industrial Engineering Volume 3 - Operational Research \* 3-volume set, containing 362 carefully reviewed and selected papers \* presenting the state-of-the-art in international research and development in Information Control problems in Manufacturing

**Enterprise System Architectures Anthem Press**

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

**Advances in Coastal and Ocean Engineering Springer Nature**

The set LNCS 2723 and LNCS 2724 constitutes the refereed proceedings of the Genetic and Evolutionary Computation Conference, GECCO 2003, held in Chicago, IL, USA in July 2003. The 193 revised full papers and 93 poster papers presented were carefully reviewed and selected from a total of 417 submissions. The papers are organized in topical sections on a-life adaptive behavior, agents, and ant colony optimization; artificial immune systems; coevolution; DNA, molecular, and quantum computing; evolvable hardware; evolutionary robotics; evolution strategies and evolutionary programming; evolutionary scheduling routing; genetic algorithms; genetic programming; learning classifier systems; real-world applications; and search based software engineering.

**High-Dimensional Data Analysis with Low-Dimensional Models World Scientific**

Briefly, the methods of determining low vapor pressures have been reviewed. Emphasis has been placed on molecular effusion, including a theoretical discussion and the subsequent application of molecular beams to the determination of vapor pressure. The problems met in the preparation, purification and handling of anhydrous zirconium tetrachloride have been discussed. Vapor pressure

measurements on zirconium tetrachloride have been made over a temperature range of fifty degrees, 70 deg C. to 120 deg C. , and the mean molar heat of sublimation for this temperature range has been calculated. The value of 20.3 kcal per mole obtained is not unreasonable in view of the fact that values for the same quantity determined by other investigators in the temperature range of 239 deg C. to 346 deg C. is reported to be 24.4 kcal. per mole.

*Evolutionary Multi-Criterion Optimization* IBM Redbooks

This book constitutes the refereed proceedings of the 7th International Conference on Evolutionary Multi-Criterion Optimization, EMO 2013 held in Sheffield, UK, in March 2013. The 57 revised full papers presented were carefully reviewed and selected from 98 submissions. The papers are grouped in topical sections on plenary talks; new horizons; indicator-based methods; aspects of algorithm design; pareto-based methods; hybrid MCDA; decomposition-based methods; classical MCDA; exploratory problem analysis; product and process applications; aerospace and automotive applications; further real-world applications; and under-explored challenges.

*Lean Thinking in Industry 4.0 and Services for Society* Springer Nature

These proceedings consist of 30 selected research papers based on results presented at the 10th Balkan Conference & 1st International Symposium on Operational Research (BALCOR 2011) held in Thessaloniki, Greece, September 22-24, 2011. BALCOR is an established biennial conference attended by a large number of faculty, researchers and students from the Balkan countries but also from other European and Mediterranean countries as well. Over the past decade, the BALCOR conference has facilitated the exchange of scientific and technical information on the subject of Operations Research and related fields such as Mathematical Programming, Game Theory, Multiple Criteria Decision Analysis, Information Systems, Data Mining and more, in order to promote international scientific cooperation. The carefully selected and refereed papers present important recent developments and modern applications and will serve as excellent reference for students, researchers and practitioners in these disciplines. ?

*Artificial Intelligence and Symbolic Mathematical Computing* Springer Science & Business Media

A panel of renowned experts from around the world contributed to this authoritative handbook that covers the essential aspects of this most dynamic field of communications and networking activity. Edited by Dr. Kornel Terplan and Patricia Morreale - well known authorities in telecommunications- this important new handbook provides basic principles and definitions, details the tremendous advances in technology, outlines implementation techniques, and discusses the outstanding issues and key challenges faced by communications and networking specialists. The telecommunications topics addressed include: o Basic principles o Services on broadband networks o Signal processing and coding schemes o Mobile and wireless networks o DSL technologies o Digital video and multimedia o Quality of service o Regulation o Standards o Emerging technologies Exhaustive in scope and packed with diagrams, tables, and illustrations, The Telecommunications Handbook is an indispensable, detailed reference for engineers, analysts, managers, and students involved in a wide range of telecommunication and networking activities.

*Computerworld* CRC Press

This book summarizes recent Chinese discussions about Internet finance—a new financial business type resulting from an innovative thinking under the new normal—in the light of the actual situation of China in transformation, especially the thirst of the grass-roots economy including medium-small and micro-sized enterprises as well as residents for financial services. The Internet finance is of great significance for optimizing and upgrading the industrial structure, improving the demand structure and reshaping the economic growth mode in China. This book will interest scholars, journalists, and businesspeople.

*Advances in Computing Science - ASIAN'98* Elsevier

This four-volume handbook gives a state-of-the-art overview of hybrid organic inorganic perovskites, both two dimensional (2D) and three dimensional (3D), from synthesis and characterization and simulation to optoelectronic devices (such as solar cells and light emitting diodes), spintronics devices and catalysis application. The editors, coming from academia and national laboratory, are known for their didactic skills as well as their technical expertise. Coordinating the efforts of 30 expert authors in 21 chapters, they construct the story of hybrid perovskite structural and optical properties, electronic and spintronic response, laser action, and catalysis from varied viewpoints: materials science, chemical engineering, and energy engineering. The four volumes are arranged according to the focus material properties. Volume 1 is focused on the material physical properties including structure, deposition characteristic and the structure of the electronic bands and excitons of these compounds. Volume 2 covers the hybrid perovskite optical properties including the ultrafast optical response, photoluminescence and laser action. Volume 3 contains the spin response of these compounds including application such as spin valves, photogalvanic effect, and magnetic response of light emitting diodes and solar cell devices. Finally, and highly relevant to tomorrow's energy challenges, volume 4 is focused on the physics and device properties of the most relevant applications of the hybrid perovskites, namely photovoltaic solar cells. The text contains many high-quality colorful illustrations and examples, as well as thousands of up-to-date references to peer-reviewed articles, reports and websites for further reading. This comprehensive and well-written handbook is a must-have reference for universities, research groups and companies working with the hybrid organic inorganic perovskites.

*Autonomous Intelligent Systems: Agents and Data Mining* Springer Nature

This book constitutes the refereed proceedings of the 12th International Conference on Evolutionary Multi-Criterion Optimization, EMO 2022 held in Leiden, The Netherlands, during March 20-24, 2023. The 44 regular papers presented in this book were carefully reviewed and selected from 65 submissions. The papers are divided into the following topical sections: Algorithm Design and Engineering; Machine Learning and Multi-criterion Optimization; Benchmarking and Performance Assessment; Indicator Design and Complexity Analysis; Applications in Real World Domains; and Multi-Criteria Decision Making and Interactive Algorithms..

*Evolutionary Multi-Criterion Optimization* IGI Global

The idea for this workshop originated when I came across and read Martin Zelkowitz's book on Requirements for Software Engineering Environments (the proceedings of a small workshop held at the University of Maryland in 1986). Although stimulated by the book I was also disappointed in that it didn't adequately address two important questions - "Whose requirements are these?" and "Will the environment which meets all these requirements be usable by software engineers?". And thus was the decision made to organise this workshop which would explicitly address these two questions. As time went by setting things up, it became clear that our workshop would happen more than five years after the Maryland workshop and thus, at the same time as addressing the two questions above, this workshop would attempt to update the Zelkowitz approach. Hence the workshop acquired two halves, one dominated by discussion of what we already know about usability problems in software engineering and the other by discussion of existing solutions (technical and otherwise) to these problems. This scheme also provided a good format for bringing together those in the Hel community concerned with the human factors of software engineering and those building tools to solve acknowledged, but rarely understood problems.

*The Telecommunications Handbook* CRC Press

This book constitutes the refereed proceedings of the 4th Asian Computing Science Conference, ASIAN'98, held in Manila, The Philippines, in December 1998. The 17 revised full papers presented were carefully reviewed and selected from a total of 43 submissions. Also included are a few invited contributions. Among the topics covered are automated deduction,

proof theory, rewriting systems, program semantics, distributed processing, algorithms, and graph-theoretical aspects.