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Contains invited lectures presented at the Third International Conference on Engineering Computational Technology, held in Prague, Czech Republic, 4-6 September 2002.

Satellite Communications and Navigation Systems 2007-12-19 Enrico Re
Satellite Communications and Navigation Systems publishes the proceedings of the 2006 Tyrrhenian International Workshop on Digital Communications. The book focuses on the integration of communication and navigation systems in satellites.

Variational Methods in Nonlinear Analysis 1995 Antonio Ambrosetti Very Good, No Highlights or Markup, all pages are intact.

Space Antenna Handbook 2012-06-25 William A. Imbriale This book addresses a broad range of topics on antennas for space applications. First, it introduces the fundamental methodologies of space antenna design, modelling and analysis as well as the state-of-the-art and anticipated future technological developments. Each of the topics discussed are specialized and contextualized to the space sector. Furthermore, case studies are also provided to demonstrate the design and implementation of antennas in actual applications. Second, the authors present a detailed review of antenna designs for some popular applications such as satellite communications, space-borne synthetic aperture radar (SAR), Global Navigation Satellite Systems (GNSS) receivers, science instruments, radio astronomy, small satellites, and deep-space applications. Finally it presents the reader with a comprehensive path from space antenna development basics to specific individual applications. Key Features: Presents a detailed review of antenna designs for applications such as satellite communications, space-borne SAR, GNSS receivers, science instruments, small satellites, radio astronomy, deep-
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space applications Addresses the space antenna development from different angles, including electromagnetic, thermal and mechanical design strategies required for space qualification Includes numerous case studies to demonstrate how to design and implement antennas in practical scenarios Offers both an introduction for students in the field and an in-depth reference for antenna engineers who develop space antennas This book serves as an excellent reference for researchers, professionals and graduate students in the fields of antennas and propagation, electromagnetics, RF/microwave/millimetrewave systems, satellite communications, radars, satellite remote sensing, satellite navigation and spacecraft system engineering, It also aids engineers technical managers and professionals working on antenna and RF designs. Marketing and business people in satellites, wireless, and electronics area who want to acquire a basic understanding of the technology will also find this book of interest.

Distributed Cooperative Laboratories: Networking, Instrumentation, and Measurements 2006-07-02 Franco Davoli This book is devoted to the investigation of the main issues related to the sustainable realization of tele-laboratories, where real and virtual instrumentation can be shared and used in a collaborative environment. The book contains peer reviewed chapters and each presents a self-contained treatment within a framework providing an up-to-date picture of the state-of-the-art and of the most recent developments of this multi-faceted topic.

Optimization and Decision Science 2022-01-03 Raffaele Cerulli This book collects selected contributions from the international conference "Optimization and Decision Science" (ODS2020), which was held online on November 19, 2020, and organized by AIRO, the Italian Operations Research Society. The

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book offers new and original contributions on optimization, decisions science and prescriptive analytics from both a methodological and applied perspective, using models and methods based on continuous and discrete optimization, graph theory and network optimization, analytics, multiple criteria decision making, heuristics, metaheuristics, and exact methods. In addition to more theoretical contributions, the book chapters describe models and methods for addressing a wide diversity of real-world applications, spanning health, transportation, logistics, public sector, manufacturing, and emergency management. Although the book is aimed primarily at researchers and PhD students in the Operations Research community, the interdisciplinary content makes it interesting for practitioners facing complex decision-making problems in the afore-mentioned areas, as well as for scholars and researchers from other disciplines, including artificial intelligence, computer sciences, economics, mathematics, and engineering.

Progress in Industrial Mathematics at ECMI 2012 2014-05-14 Magnus Fontes
This book contains the proceedings of the 17th European Conference on Mathematics for Industry, ECMI2012, held in Lund, Sweden, July 2012, at which ECMI celebrated its 25th anniversary. It covers mathematics in a wide range of applications and methods, from circuit and electromagnetic devices, environment, fibers, flow, medicine, robotics and automotive industry, further applications to methods and education. The book includes contributions from leading figures in business, science and academia that promote the application of mathematics to industry and emphasize industrial sectors that offer the most exciting opportunities. The contributions reinforce the role of mathematics as being a catalyst for innovation as well as an overarching resource for industry and business. The book features an accessible presentation of real-world problems in industry and finance, provides insight and tools for engineers and scientists who will help them to solve similar problems and offers modeling and simulation techniques that will provide mathematicians with a source of fresh ideas and inspiration.

Intelligent Distributed Computing XIII 2019-10-01 Igor Kottenko This book

gathers research contributions on recent advances in intelligent and distributed computing. A major focus is placed on new techniques and applications for several highlydemanded research directions: Internet of Things, Cloud Computing and Big Data, Data Mining and Machine Learning, Multi-agent and Service-Based Distributed Systems, Distributed Algorithms and Optimization, Modeling Operational Processes, Social Network Analysis and Inappropriate Content Counteraction, Cyber-Physical Security and Safety, Intelligent Distributed Decision Support Systems, Intelligent Human-Machine Interfaces, VisualAnalytics and others. The book represents the peer-reviewed proceedings of the 13thInternational Symposium on Intelligent Distributed Computing (IDC 2019), which was held in St. Petersburg, Russia, from October 7 to 9, 2019.

Scientific Computing in Electrical Engineering SCEE 2010 2012-01-06 Bastiaan Michielsen Selected from papers presented at the 8th Scientific Computation in Electrical Engineering conference in Toulouse in 2010, the contributions to this volume cover every angle of numerically modelling electronic and electrical systems, including computational electromagnetics, circuit theory and simulation and device modelling. On computational electromagnetics, the chapters examine cutting-edge material ranging from low-frequency electrical machine modelling problems to issues in high-frequency scattering. Regarding circuit theory and simulation, the book details the most advanced techniques for modelling networks with many thousands of components. Modelling devices at microscopic levels is covered by a number of fundamental mathematical physics papers, while numerous papers on model order reduction help engineers and systems designers to bring their modelling of industrial-scale systems within the reach of present-day computational power. Complementing these more specific papers, the volume also contains a selection of mathematical methods which can be used in any application domain.

Advances in Theoretical and Applied Statistics 2013-06-26 Nicola Torelli This volume includes contributions selected after a double blind review process

and presented as a preliminary version at the 45th Meeting of the Italian Statistical Society. The papers provide significant and innovative original contributions and cover a broad range of topics including: statistical theory; methods for time series and spatial data; statistical modeling and data analysis; survey methodology and official statistics; analysis of social, demographic and health data; and economic statistics and econometrics.

Internet of Things and Analytics for Agriculture, Volume 3 2021-11-10 Prasant Kumar Pattnaik The book discusses one of the major challenges in agriculture which is delivery of cultivate produce to the end consumers with best possible price and quality. Currently all over the world, it is found that around 50% of the farm produce never reaches the end consumer due to wastage and suboptimal prices. The authors present solutions to reduce the transport cost, predictability of prices on the past data analytics and the current market conditions, and number of middle hops and agents between the farmer and the end consumer using IoT-based solutions. Again, the demand by consumption of agricultural products could be predicted quantitatively; however, the variation of harvest and production by the change of farm's cultivated area, weather change, disease and insect damage, etc., could be difficult to be predicted, so that the supply and demand of agricultural products has not been controlled properly. To overcome, this edited book designed the IoT-based monitoring system to analyze crop environment and the method to improve the efficiency of decision making by analyzing harvest statistics. The book is also useful for academicians working in the areas of climate changes.

Putting Tradition into Practice: Heritage, Place and Design 2017-07-19 Giuseppe Amoruso This book gathers more than 150 peer-reviewed papers presented at the 5th INTBAU International Annual Event, held in Milan, Italy, in July 2017. The book represents an invaluable and up-to-date international exchange of research, case studies and best practice to confront the challenges of designing places, building cultural landscapes and enabling the development of communities. The papers investigate methodologies of representation, communication and valorization of historic urban landscapes

and cultural heritage, monitoring conservation management, cultural issues in heritage assessment, placemaking and local identity enhancement, as well as reconstruction of settlements affected by disasters. With contributions from leading experts, including university researchers, professionals and policy makers, the book addresses all who seek to understand and address the challenges faced in the protection and enhancement of the heritage that has been created.

Membrane Reactors 2019-02 Giuseppe Barbieri Membrane reactors increase chemical conversion by influencing the reaction equilibrium through a combination of reaction and separation. This book provides insight into designing membrane reactors for industrial application, the profile of the chemical reactions occurring and beneficial effects on the production yield and quality.

Coupled CFD-DEM Modeling 2016-10-17 Hamid Reza Norouzi Discusses the CFD-DEM method of modeling which combines both the Discrete Element Method and Computational Fluid Dynamics to simulate fluid-particle interactions. Deals with both theoretical and practical concepts of CFD-DEM, its numerical implementation accompanied by a hands-on numerical code in FORTRAN Gives examples of industrial applications

E-Learning in Europe - Learning Europe Michael Kindt, Ullrich Dittler, Helge Kahler This book contains contributions about the past, present and future of e-learning in twelve European countries. The papers are written by experts about their respective countries, together with one paper that deals with the subject from a transnational perspective. The main question treated and answered in this book is how digital media has contributed to Higher Education Development in different national contexts. Beyond a mere description of the situation in different countries, the socio-technical approach adopted in this book also offers the opportunity to make comparisons and thus fosters understanding between experts from different disciplines and cultures. This book takes stock of a decade of digital media in Higher Education in

Europe by presenting a first comparative approach and encouraging discussion by adopting a relativist rather than a generalist approach. Readers are thus stimulated to envisage how e-learning might have developed in their own work and learning context and to shape how it may do so.

Modular Programming Languages 2003-08-13 Laszlo Boszormenyi This book constitutes the refereed proceedings of the international Joint Modular Languages Conference, JMLC 2003, held in Klagenfurt, Austria in August 2003. The 17 revised full papers and 10 revised short papers presented together with 5 invited contributions were carefully reviewed and selected from 47 submissions. The papers are organized in topical sections on architectural concepts and education, component architectures, language concepts, frameworks and design principles, compilers and tools, and formal aspects and reflective programming.

Basic Concepts of Criminal Law 1998-09-03 George P. Fletcher In the United States today criminal justice can vary from state to state, as various states alter the Modern Penal Code to suit their own local preferences and concerns. In Eastern Europe, the post-Communist countries are quickly adopting new criminal codes to reflect their specific national concerns as they gain autonomy from what was once a centralized Soviet policy. As commonalities among countries and states disintegrate, how are we to view the basic concepts of criminal law as a whole? Eminent legal scholar George Fletcher acknowledges that criminal law is becoming increasingly localized, with every country and state adopting their own conception of punishable behavior, determining their own definitions of offenses. Yet by taking a step back from the details and linguistic variations of the criminal codes, Fletcher is able to perceive an underlying unity among diverse systems of criminal justice. Challenging common assumptions, he discovers a unity that emerges not on the surface of statutory rules and case law but in the underlying debates that inform them. Basic Concepts of Criminal Law identifies a set of twelve distinctions that shape and guide the controversies that inevitably break out in every system of criminal justice. Devoting a chapter to each of these twelve

concepts, Fletcher maps out what he considers to be the deep structure of all systems of criminal law. Understanding these distinctions will not only enable students to appreciate the universal fundamental ideas of criminal law, but will enable them to understand the significance of local details and variations. This accessible illustration of the unity of diverse systems of criminal justice will provoke and inform students and scholars of law and the philosophy of law, as well as lawyers seeking a better understanding of the law they practice.

On the Stability of Elastic Equilibrium 1967 Warner Tjardus Koiter

Organizational Change and Information Systems 2013-05-18 Paolo Spagnoletti This book examines a range of issues emerging from the interaction of Information Technologies and organizational systems. It contains a collection of research papers focusing on themes of growing interest in the field of Information Systems, Organization Studies, and Management. The book offers a multidisciplinary view on Information Systems aiming to disseminate academic knowledge. It might be particularly relevant to IT practitioners such as information systems managers, business managers and IT consultants. The volume is divided into six sections, each one focusing on a specific theme. The content of each section is based on a selection of the best papers (original double blind peer reviewed contributions) presented at the annual conference of the Italian chapter of AIS, which has been held in Rome, Italy in September 2012.

Numerical Computations: Theory and Algorithms 2020-02-13 Yaroslav D. Sergeyev The two-volume set LNCS 11973 and 11974 constitute revised selected papers from the Third International Conference on Numerical Computations: Theory and Algorithms, NUMTA 2019, held in Crotona, Italy, in June 2019. This volume, LNCS 11974, consists of 19 full and 32 short papers chosen among regular papers presented at the the Conference including also the paper of the winner (Lorenzo Fiaschi, Pisa, Italy) of The Springer Young Researcher Prize for the best NUMTA 2019 presentation made by a young scientist. The papers in part II explore the advanced research developments

in such interconnected fields as local and global optimization, machine learning, approximation, and differential equations. A special focus is given to advanced ideas related to methods and applications using emerging computational paradigms.

Optimization and Decision Science: Methodologies and Applications

2017-11-03 Antonio Sforza This proceedings volume highlights the state-of-the-art knowledge related to optimization, decisions science and problem solving methods, as well as their application in industrial and territorial systems. It includes contributions tackling these themes using models and methods based on continuous and discrete optimization, network optimization, simulation and system dynamics, heuristics, metaheuristics, artificial intelligence, analytics, and also multiple-criteria decision making. The number and the increasing size of the problems arising in real life require mathematical models and solution methods adequate to their complexity. There has also been increasing research interest in Big Data and related challenges. These challenges can be recognized in many fields and systems which have a significant impact on our way of living: design, management and control of industrial production of goods and services; transportation planning and traffic management in urban and regional areas; energy production and exploitation; natural resources and environment protection; homeland security and critical infrastructure protection; development of advanced information and communication technologies. The chapters in this book examine how to deal with new and emerging practical problems arising in these different fields through the presented methodologies and their applications. The chapter topics are applicable for researchers and practitioners working in these areas, but also for the operations research community. The contributions were presented during the international conference “Optimization and Decision Science” (ODS2017), held at Hilton Sorrento Palace Conference Center, Sorrento, Italy, September 4 – 7, 2017. ODS 2017, was organized by AIRO, Italian Operations Research Society, in cooperation with DIETI (Department of Electrical Engineering and Information Technology) of University “Federico II” of Naples.

Progress in Industrial Mathematics at ECMI 2016 2018-03-26 Peregrina Quintela This book addresses mathematics in a wide variety of applications, ranging from problems in electronics, energy and the environment, to mechanics and mechatronics. Using the classification system defined in the EU Framework Programme for Research and Innovation H2020, several of the topics covered belong to the challenge climate action, environment, resource efficiency and raw materials; and some to health, demographic change and wellbeing; while others belong to Europe in a changing world – inclusive, innovative and reflective societies. The 19th European Conference on Mathematics for Industry, ECMI2016, was held in Santiago de Compostela, Spain in June 2016. The proceedings of this conference include the plenary lectures, ECMI awards and special lectures, mini-symposia (including the description of each mini-symposium) and contributed talks. The ECMI conferences are organized by the European Consortium for Mathematics in Industry with the aim of promoting interaction between academy and industry, leading to innovation in both fields and providing unique opportunities to discuss the latest ideas, problems and methodologies, and contributing to the advancement of science and technology. They also encourage industrial sectors to propose challenging problems where mathematicians can provide insights and fresh perspectives. Lastly, the ECMI conferences are one of the main forums in which significant advances in industrial mathematics are presented, bringing together prominent figures from business, science and academia to promote the use of innovative mathematics in industry.

Beginning Android 4 Application Development 2012-02-03 Wei-Meng Lee Understand Android OS for both smartphone and tablet programming This fast-paced introduction to the newest release of Android OS gives aspiring mobile app developers what they need to know to program for today's hottest Android smartphones and tablets. Android 4 OS is, for the first time, a single solution for both smartphones and tablets, so if you master the information in this helpful guide, you'll be well on your way to successful development for both devices. From using activities and intents and creating rich user

interfaces to working with SMS, messaging APIs, and the Android SDK, what you need is here. Provides clear instructions backed by real-world programming examples Begins with the basics and covers everything Android 4 developers need to know for both smartphones and tablets Explains how to customize activities and intents, create rich user interfaces, and manage data Helps you work with SMS and messaging APIs, the Android SDK, and using location-based services Details how to package and publish your applications to the Android Market Beginning Android 4 Application Development pares down the most essential steps you need to know so you can start creating Android applications today.

Isogeometric Analysis 2009-08-11 J. Austin Cottrell “The authors are the originators of isogeometric analysis, are excellent scientists and good educators. It is very original. There is no other book on this topic.” —René de Borst, Eindhoven University of Technology Written by leading experts in the field and featuring fully integrated colour throughout, Isogeometric Analysis provides a groundbreaking solution for the integration of CAD and FEA technologies. Tom Hughes and his researchers, Austin Cottrell and Yuri Bazilevs, present their pioneering isogeometric approach, which aims to integrate the two techniques of CAD and FEA using precise NURBS geometry in the FEA application. This technology offers the potential to revolutionise automobile, ship and airplane design and analysis by allowing models to be designed, tested and adjusted in one integrative stage. Providing a systematic approach to the topic, the authors begin with a tutorial introducing the foundations of Isogeometric Analysis, before advancing to a comprehensive coverage of the most recent developments in the technique. The authors offer a clear explanation as to how to add isogeometric capabilities to existing finite element computer programs, demonstrating how to implement and use the technology. Detailed programming examples and datasets are included to impart a thorough knowledge and understanding of the material. Provides examples of different applications, showing the reader how to implement isogeometric models Addresses readers on both sides of the CAD/FEA divide Describes Non-Uniform Rational B-Splines (NURBS) basis functions

Deterministic Global Optimization 2017-06-16 Yaroslav D. Sergeyev This book begins with a concentrated introduction into deterministic global optimization and moves forward to present new original results from the authors who are well known experts in the field. Multiextremal continuous problems that have an unknown structure with Lipschitz objective functions and functions having the first Lipschitz derivatives defined over hyperintervals are examined. A class of algorithms using several Lipschitz constants is introduced which has its origins in the DIRECT (DlViding RECTangles) method. This new class is based on an efficient strategy that is applied for the search domain partitioning. In addition a survey on derivative free methods and methods using the first derivatives is given for both one-dimensional and multi-dimensional cases. Non-smooth and smooth minorants and acceleration techniques that can speed up several classes of global optimization methods with examples of applications and problems arising in numerical testing of global optimization algorithms are discussed. Theoretical considerations are illustrated through engineering applications. Extensive numerical testing of algorithms described in this book stretches the likelihood of establishing a link between mathematicians and practitioners. The authors conclude by describing applications and a generator of random classes of test functions with known local and global minima that is used in more than 40 countries of the world. This title serves as a starting point for students, researchers, engineers, and other professionals in operations research, management science, computer science, engineering, economics, environmental sciences, industrial and applied mathematics to obtain an overview of deterministic global optimization.

La Città Altra. Storia E Immagine Della Diversità Urbana: Luoghi E Paesaggi Dei Privilegi E Del Benessere, Dell'isolamento, Del Disagio, Della Multiculturalità. Ediz. Italiana E Inglese 2018-10 Francesca Capano This volume proposes a rich corpus of papers about the 'Other City', a subject only few times dealt with, but worthy of all our attention: it imposes itself on the scene of international modern and contemporary historiography for its undeniable topicality. Throughout history, the city has always had to deal with

social 'otherness', i.e. with class privileges and, consequently, with discrimination and marginalization of minorities, of the less well-off, of foreigners, in short, with the differences in status, culture, religion. So that the urban fabric has ended up structuring itself also in function of those inequalities, as well as of the strategic places for the exercise of power, of the political, military or social control, of the spaces for imprisonment, for the sanitary isolation or for the 'temporary' remedy to the catastrophes. From the first portraits of cities, made and diffused at the beginning of the fifteenth century for political exaltation purposes or for religious propaganda and for devotional purposes, which often, through increasingly refined graphic techniques, distort or even deny the true urban image, we reach, at the dawn of contemporary history, the new meaning given by scientific topography and new methods of representation; these latter aimed at revealing the structure and the urban landscape in their objectivity, often unexpected for who had known the city through the filter of 'regime' iconography. The representation of the urban image still shows the contradictions of a community that sometimes includes and even exalts the diversities, other times rejects them, showing the unease of a difficult integration.

Pd-based Membranes 2019-03-26 Thijs Peters Palladium (Pd)-based membranes have received a great deal of attention from both academia and industry thanks to their ability to selectively separate hydrogen from gas streams. The integration of such membranes with appropriate catalysts in membrane reactors allows for hydrogen production with CO₂ capture that can be applied in smaller bioenergy or combined heat and power (CHP) plants, as well as in large-scale power plants. Pd-based membranes are therefore regarded as a Key Enabling Technology (KET) to facilitate the transition towards a knowledge-based, low-carbon, and resource-efficient economy. This Special Issue of the journal Membranes on "Pd-based Membranes: Overview and Perspectives" contains nine peer-reviewed articles. Topics include manufacturing techniques, understanding of material phenomena, module and reactor design, novel applications, and demonstration efforts and industrial exploitation.

Major Companies of Europe 1990/91 2012-12-06 R. M. Whiteside Graham & Trotman, a member of the Kluwer Academic VOLUMES 1 & 2 Publishers Group is one of Europe's leading publishers of MAJOR COMPANIES OF EUROPE 1990/91, Volume 1, business information, and publishes company reference containing useful information on over 4000 of the top annuals on other parts of the world as follows: Companies in the European Economic Community, excluding the UK, nearly 1500 companies of which are MAJOR COMPANIES OF THE ARAB WORLD covered in Volume 2. Volume 3 covers nearly 1100 of the MAJOR COMPANIES OF THE FAR EAST & AUSTRALASIA top companies within Western Europe but outside the MAJOR COMPANIES OF THE U.S.A. European Economic Community. Altogether the three volumes of MAJOR COMPANIES OF EUROPE now Please send for a free complete catalogue of the provide in authoritative detail, vital information on over company's books on business management techniques, 6600 of the largest companies in Western Europe. business law, finance, banking, export markets, oil technology, energy resources, pollution control and a MAJOR COMPANIES OF EUROPE 1990/91, Volumes 1 number of other subject areas to: The Editor, Major & 2 contain many of the largest companies from the world The Companies of Europe, Graham & Trotman Ltd, Sterling area covered by these volumes, the European Economic House, 66 Wilton Road, London SW1V 1DE.

Computational Logistics 2017-10-11 Tolga Bektaş This book constitutes the refereed proceedings of the 8th International Conference on Computational Logistics, ICCL 2017, held in Southampton, UK, in October 2017. The 38 papers presented in this volume were carefully reviewed and selected for inclusion in the book. They are organized in topical sections entitled: vehicle routing and scheduling; maritime logistics; synchromodal transportation; and transportation, logistics and supply chain planning.

Seaside Operations Planning in Container Terminals 2009-05-28 Frank Meisel 1. 1 Motivation and Scope of Research Container terminals in seaports constitute interfaces between sea and land transport of goods in global

transport chains. These logistics facilities face an increasing demand of service capacity, as is reflected by a tremendous growth in the worldwide container transshipments per year. For example, the top 20 terminals in the world showed an average relative increase of 14% with respect to the number of handled container units from 2006 to 2007, see Port of Hamburg Marketing (2008). In spite of this development, competition is high among container terminals within the same region. A terminal's customers, first and foremost the vessel operators, expect a high level of service quality where reliability is one of the most important dimensions, see Wiegman et al. (2001). Regarding the service of a vessel, reliability means to realize all transshipment operations within its projected service time interval. The reliability of terminal operations impacts the reliability of vessels in meeting their liner schedules. According to Notteboom (2006) unexpected waiting times of vessels before berthing and unexpected low transshipment productivity at terminals are responsible for about 86% of liner schedule disturbances, see Fig. 1.1. Currently, many terminal operators counteract this situation by extending their transshipment capacities. They build new terminals or enlarge existing terminals and purchase new or upgrade existing equipment. Ilmer (2005) provides an overview of current projects for building terminal capacity in northern Europe.

Special Relativity 2013-08-15 Valerio Faraoni This book offers an essential bridge between college-level introductions and advanced graduate-level books on special relativity. It begins at an elementary level, presenting and discussing the basic concepts normally covered in college-level works, including the Lorentz transformation. Subsequent chapters introduce the four-dimensional worldview implied by the Lorentz transformations, mixing time and space coordinates, before continuing on to the formalism of tensors, a topic usually avoided in lower-level courses. The book's second half addresses a number of essential points, including the concept of causality; the equivalence between mass and energy, including applications; relativistic optics; and measurements and matter in Minkowski space-time. The closing chapters focus on the energy-momentum tensor of a continuous distribution of

mass-energy and its co-variant conservation; angular momentum; a discussion of the scalar field of perfect fluids and the Maxwell field; and general coordinates. Every chapter is supplemented by a section with numerous exercises, allowing readers to practice the theory. These exercises constitute an essential part of the textbook, and the solutions to approximately half of them are provided in the appendix.

Essentials of Fluidization Technology 2020-06-15 John R. Grace A concise and clear treatment of the fundamentals of fluidization, with a view to its applications in the process and energy industries.

Models and Algorithms for Global Optimization 2007-04-08 Aimo Törn The research of Antanas Zilinskas has focused on developing models for global optimization, implementing and investigating the corresponding algorithms, and applying those algorithms to practical problems. This volume, dedicated to Professor Zilinskas on the occasion of his 60th birthday, contains new survey papers in which leading researchers from the field present various models and algorithms for solving global optimization problems.

Multi-Agent Systems for Concurrent Intelligent Design and Manufacturing 2019-09-17 Weiming Shen Agent Technology, or Agent-Based Approaches, is a new paradigm for developing software applications. It has been hailed as 'the next significant breakthrough in software development', and 'the new revolution in software' after object technology or object-oriented programming. In this context, an agent is a computer system which is capable of act

Vehicle Routing 1988 Bruce L. Golden Hardbound. This collection of original research papers is dedicated to the analysis and solution of vehicle routing problems. Vehicle routing is a branch of operations research that has attracted a great deal of research attention over the years. The accumulated body of knowledge has resulted in algorithms and insights that have enabled companies and organizations in both the public and private sectors to save from 5% to 10% on distribution related costs. The volume brings together, in a

comprehensive way, the theory and practice of vehicle routing in book form for the first time.

PROCEEDINGS 4th International Congress on "Science and Technology for the Safeguard of Cultural Heritage in the Mediterranean Basin" VOL. I

Biological Inorganic Chemistry 2007 Gray Bertini Part A.: Overviews of biological inorganic chemistry : 1. Bioinorganic chemistry and the biogeochemical cycles -- 2. Metal ions and proteins: binding, stability, and folding -- 3. Special cofactors and metal clusters -- 4. Transport and storage of metal ions in biology -- 5. Biominerals and biomineralization -- 6. Metals in medicine. -- Part B.: Metal ion containing biological systems : 1. Metal ion transport and storage -- 2. Hydrolytic chemistry -- 3. Electron transfer, respiration, and photosynthesis -- 4. Oxygen metabolism -- 5. Hydrogen, carbon, and sulfur metabolism -- 6. Metalloenzymes with radical intermediates -- 7. Metal ion receptors and signaling. -- Cell biology, biochemistry, and evolution: Tutorial I. -- Fundamentals of coordination chemistry: Tutorial II.

Interdisciplinary Aspects of Information Systems Studies 2010-10-19
Alessandro D'Atri Chapters of this book offer a careful selection of the best contributions to the Italian Association for Information Systems (ItAIS) Annual Conference, that took place in Venice, San Servolo Island, in October 2007. The main goal of this book is to disseminate academic knowledge, both theoretical and pragmatic, in the information systems community. Recognizing the relevance of many different disciplines, the book takes an interdisciplinary approach to the subject of information systems, thus providing a comprehensive and current coverage of this important area. ItAIS (<http://www.itais.org>) is the Italian chapter of the Association for Information Systems (<http://www.aisnet.org>). It was established in 2003 and has since been promoting the exchange of ideas, experience and knowledge among both academics and professionals committed to the development, management, organization and use of information systems.

Constrained Global Optimization 1987 Panos M. Pardalos

Rainfall Nowcasting Models for Early Warning Systems 2013 Davide Luciano De Luca This book provides a state of the art overview of rainfall nowcasting or short-term rainfall forecasting, which is an essential component of early warning systems for mitigating risks of landslide and floods. Special attention is given to spatial and temporal hydrological scales that are associated with the forecast of flash-floods and shallow-landslides. The importance of Probabilistic Quantitative Precipitation Forecast (PQPF) is highlighted. This approach is beneficial to a Quantitative Precipitation Forecast (QPF). Moreover, several approaches for nowcasting are compared. In particular, the differences in performances between stochastic and meteorological models. A methodology for coupling these approaches is proposed, which can improve nowcasting "outside a storm event" (ie: prior to the commencement of rainfall).

Engineering Computational Technology 2002 B. H. V. Topping Contains invited lectures presented at the Third International Conference on Engineering Computational Technology, held in Prague, Czech Republic, 4-6 September 2002. It includes contributions from: CG Armstrong, SN Atluri, AC Benim, P Bomme, D Bowman, RS Crouch, Y Dere, O Hassan, and more.

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