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University of Michigan Official Publication Springer Science & Business Media
SUMMARY.

Bibliography on Motor Vehicle & Traffic Safety Elsevier

Demographics reveal that the proportion of elderly individuals in the population is growing at a significant rate. Advances in medicine have allowed populations to live longer than ever; however, ensuring that these individuals have the tools necessary to sustain a productive and happy lifestyle as they age remains a concern. Optimizing Assistive Technologies for Aging Populations focuses on the development and improvement of devices intended to assist elderly individuals in coping with various physical limitations and disabilities. Highlighting the available tools and technologies for supporting the mobility, agility, and self-sufficiency of the aging population as well as the challenges associated with the integration of these technologies into the everyday lives of elderly individuals, this publication is ideally designed for reference use by healthcare workers, medical students, gerontologists, and IT developers in the field of medicine.

CARS 2002 Computer Assisted Radiology and Surgery IGI Global

Progress in specific computer-assisted techniques (digital imaging, computer-aided diagnosis, image-guided surgery, MEMS, etc.) combined with computer-assisted integration tools offers a valuable complement to or replacement for existing

procedures in healthcare. Physicians are now employing PACS and telemedicine systems as enabling infrastructures to improve quality of and access to healthcare. Tools based on CAD and CAS facilitate completely new paths in patient care. To ensure that CARS tools benefit the patient, collaboration between various disciplines, specifically radiology, surgery, engineering, informatics, and healthcare management, is a critical factor. A multidisciplinary congress like CARS is a step in the desired direction of knowledge sharing and crossover education. It provides the necessary cooperative framework for advancing the development and application of modern computer-assisted technologies in healthcare. Indian Science Abstracts UM Libraries Nanostructured Photocatalysts: From Fundamental to Practical Applications offers a good opportunity for academic, industrial researchers and engineers to gain insights on the fundamental principles and updated knowledge on the engineering aspects and various practical applications of photocatalysis. This book comprehensively and systematically reviews photocatalytic fundamental aspects, ranging from reaction mechanism, kinetic modeling, nanocatalyst synthesis and design, essential material characterization using advanced techniques, and novel reactor design and scale-up. Future perspectives, techno-economical evaluation and lifecycle assessment of photocatalytic processes are also provided. Finally, a wide range of practical, important and emerging photocatalytic applications, namely wastewater treatment, air pollution remediation, renewable and green energy generation, and vital chemical production are thoroughly covered, making this book useful

and beneficial for engineers, scientists, academic researchers, undergraduates and postgraduates. Provides a fundamental understanding of photocatalysis Covers all aspects of recent developments in photocatalytic processes and photocatalytic materials Focuses on advanced photocatalytic applications and future research advancements on energy, environment, biomedical, and other specialty fields Contains contributions from leading international experts in photocatalysis Presents a valuable reference for academic and industrial researchers, scientists and engineers **Research Centers Directory** Copyright Office, Library of Congress

As the demand for efficient energy sources continues to grow, electrical systems are becoming more essential to meet these increased needs. Electrical generation and transmission plans must remain cost-effective, reliable, and flexible for further future expansion. As these systems are being utilized more frequently, it becomes imperative to find ways of optimizing their overall function. Novel Advancements in Electrical Power Planning and Performance is an essential reference source that provides vital research on the specific challenges, issues, strategies, and solutions that are associated with electrical transmission and distribution systems and features emergent methods and research in the systemic and strategic planning of energy usage. Featuring research on topics such as probabilistic modeling, voltage stability, and radial distribution, this book is ideally designed for electrical engineers, practitioners, power plant managers, investors, industry professionals, researchers, academicians, and students seeking coverage on the methods and profitability of electrical expansion planning.

Developments in Engineering Education Standards: Advanced Curriculum

Innovations IGI Global

Modern optimization approaches have attracted an increasing number of scientists, decision makers, and researchers. As new issues in this field emerge, different optimization methodologies must be developed and implemented. The Handbook of Research on Emergent Applications of Optimization Algorithms is an authoritative reference source for the latest scholarly research on modern optimization techniques for solving complex problems of global optimization and their applications in economics and

engineering. Featuring coverage on a broad range of topics and perspectives such as hybrid systems, non-cooperative games, and cryptography, this publication is ideally designed for students, researchers, and engineers interested in emerging developments in optimization algorithms.

American Men of Science IGI Global

The book combines vehicle systems dynamics with the latest theoretical developments in dynamics of non-smooth systems and numerical analysis of differential-algebraic dynamical systems with discontinuities. These two fields are fundamental for the modelling and analysis of vehicle dynamical systems. The results are also applicable to other non-smooth dynamical systems.

Directory of European Research and Development Princeton University Press
Includes advertising matter.

Elsevier

This book presents select proceedings of the International Conference on Renewable Energy Systems (ICRES 2020). It focuses mainly on the concepts of electric vehicle, selection of batteries, selection of electric motors for specific capacity vehicles, design of controllers, battery chargers and development of testing facility. It presents the importance of energy storage system and modeling aspects of battery, super capacitor, flywheel energy storage and Superconducting magnetic energy storage systems. The book comprehensively presents the integration of renewable energy sources with smart grid, smart grid technologies and equipment, grid interconnection issues and design of intelligent controllers for grid connected system. The state-of-the-art technologies such as charging infrastructure for electric vehicles, robotic applications in energy, energy education and informatics are also covered in this book. This book will benefit the students and researchers in the field of electronics and electrical engineering, energy engineering, automotive engineering, e-mobility specialists and industrial experts.

Modern Control Engineering Springer Science & Business Media

The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the

mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

Oil Field Engineering CRC Press

This book plays a significant role in improving human life to a great extent. The new applications of soft computing can be regarded as an emerging field in computer science, automatic control engineering, medicine, biology application, natural environmental engineering, and pattern recognition. Now, the exemplar model for soft computing is human brain. The use of various techniques of soft computing is nowadays successfully implemented in many domestic, commercial, and industrial applications due to the low-cost and very high-performance digital processors and also the decline price of the memory chips. This is the main reason behind the wider expansion of soft computing techniques and its application areas. These computing methods also play a significant role in the design and optimization in diverse engineering disciplines. With the influence and the development of the Internet of things (IoT) concept, the need for using soft computing techniques has become more significant than ever. In general, soft computing methods are closely similar to biological processes than traditional techniques, which are mostly based on formal logical systems, such as sentential logic and predicate logic, or rely heavily on computer-aided numerical analysis. Soft computing techniques are anticipated to complement each other. The aim of these techniques is to accept imprecision, uncertainties, and approximations to get a rapid solution.

Catalog of Copyright Entries. Third Series

Springer Nature

Developments in Engineering Education Standards: Advanced Curriculum Innovations IGI Global

Novel Advancements in Electrical Power Planning and Performance Springer Nature

Handbook of Railway Vehicle Dynamics, Second Edition, provides expanded, fully updated coverage of railway vehicle dynamics. With chapters by international experts, this work surveys the main areas of rolling stock and locomotive dynamics. Through mathematical analysis and numerous practical examples, it builds a deep understanding of the wheel-rail interface, suspension and suspension component design, simulation and testing of electrical and mechanical systems, and interaction with the surrounding infrastructure, and noise and vibration. Topics

added in the Second Edition include magnetic levitation, rail vehicle aerodynamics, and advances in traction and braking for full trains and individual vehicles.

The Journal of the Society of Automotive Engineers Developments in Engineering Education Standards: Advanced Curriculum Innovations

Progress in specific computer-assisted techniques (digital imaging, computer-aided diagnosis, image-guided surgery, MEMS, etc.) combined with computer-assisted integration tools offers a valuable complement to or replacement for existing procedures in healthcare. Physicians are now employing PACS and telemedicine systems as enabling infrastructures to improve quality of and access to healthcare. Tools based on CAD and CAS facilitate completely new paths in patient care. To ensure that CARS tools benefit the patient, collaboration between various disciplines, specifically radiology, surgery, engineering, informatics, and healthcare management, is a critical factor. A multidisciplinary congress like CARS is a step in the desired direction of knowledge sharing and crossover education. It provides the necessary cooperative framework for advancing the development and application of modern computer-assisted technologies in healthcare.

Advanced Soft Computing Techniques in Data Science, IoT and Cloud Computing

Springer Science & Business Media

Nanosensors for Smart Cities covers the fundamental design concepts and emerging applications of nanosensors for the creation of smart city infrastructures. Examples of major applications include logistics management, where nanosensors could be used in active transport tracking devices for smart tracking and tracing, and in agri-food productions, where nanosensors are used in nanochips for identity, and food inspection, and smart storage. This book is essential reading for researchers working in the field of advanced sensors technology, smart city technology and nanotechnology, and stakeholders involved in city management. Nanomaterials based sensors (nanosensors) can offer many advantages over their microcounterparts, including lower power consumption, high sensitivity, lower concentration of analytes, and smaller interaction distance between object and sensor. With the support of artificial intelligence (AI) tools, such as fuzzy logic, genetic algorithms, neural networks, and ambient-intelligence, sensor systems are becoming smarter. Provides information on the fabrication and fundamental design concepts of nanosensors for intelligent systems Explores how nanosensors are being used to better monitor and maintain infrastructure services, including street lighting, traffic management and pollution control Assesses the challenges for creating nanomaterials-enhanced sensors for mass-

market consumer products

Who's who in Engineering IGI Global

What a rare mushroom can teach us about sustaining life on a fragile planet Matsutake is the most valuable mushroom in the world—and a weed that grows in human-disturbed forests across the northern hemisphere. Through its ability to nurture trees, matsutake helps forests to grow in daunting places. It is also an edible delicacy in Japan, where it sometimes commands astronomical prices. In all its contradictions, matsutake offers insights into areas far beyond just mushrooms and addresses a crucial question: what manages to live in the ruins we have made? A tale of diversity within our damaged landscapes, *The Mushroom at the End of the World* follows one of the strangest commodity chains of our times to explore the unexpected corners of capitalism. Here, we witness the varied and peculiar worlds of matsutake commerce: the worlds of Japanese gourmets, capitalist traders, Hmong jungle fighters, industrial forests, Yi Chinese goat herders, Finnish nature guides, and more. These companions also lead us into fungal ecologies and forest histories to better understand the promise of cohabitation in a time of massive human destruction. By investigating one of the world's most sought-after fungi, *The Mushroom at the End of the World* presents an original examination into the relation between capitalist destruction and collaborative survival within multispecies landscapes, the prerequisite for continuing life on earth.

[Nanosensors for Smart Cities](#) Springer Science & Business Media

An encyclopedia designed especially to meet the needs of elementary, junior high, and senior high school students.

[The World Book Encyclopedia](#) Springer

The vehicle routing problem (VRP) is one of the most famous combinatorial optimization problems. In simple terms, the goal is to determine a set of routes with overall minimum cost that can satisfy several geographical scattered - demands. A fleet of vehicles located in one or more depots is available to fulfill the requests. A large number of variants exist, adding different constraints to the original definition. Some examples are related to the number of depots, the ordering for visiting the customers or to time windows specifying a desirable period to arrive to a given location. The original version of this problem was proposed by Dantzig and Ramser in 1959 [1]. In their seminal paper, the authors address the calculation of a set of optimal routes for a fleet of gasoline delivery trucks. Since then, the VRP has attracted the attention of a large number of researchers. A considerable part of

its success is a consequence of its practical interest, as it resembles many real-world problems faced everyday by distribution and transportation companies, just to mention a few applications areas. In this context, the development of efficient optimization techniques is crucial. They are able to provide new and enhanced solutions to logistic operations, and may therefore lead to a substantial reduction in costs for companies. Additionally, and from a research oriented perspective, the VRP is a challenging NP-hard problem providing excellent benchmarks to access the efficiency of new global optimization algorithms.

[Chemical & Metallurgical Engineering](#)

The Soil Conservation Service (SCS) curve number (CN) method is one of the most popular methods for computing the runoff volume from a rainstorm. It is popular because it is simple, easy to understand and apply, and stable, and accounts for most of the runoff producing watershed characteristics, such as soil type, land use, hydrologic condition, and antecedent moisture condition. The SCS-CN method was originally developed for its use on small agricultural watersheds and has since been extended and applied to rural, forest and urban watersheds. Since the inception of the method, it has been applied to a wide range of environments. In recent years, the method has received much attention in the hydrologic literature. The SCS-CN method was first published in 1956 in Section-4 of the National Engineering Handbook of Soil Conservation Service (now called the Natural Resources Conservation Service), U. S. Department of Agriculture. The publication has since been revised several times. However, the contents of the methodology have been nonetheless more or less the same. Being an agency methodology, the method has not passed through the process of a peer review and is, in general, accepted in the form it exists. Despite several limitations of the method and even questionable credibility at times, it has been in continuous use for the simple reason that it works fairly well at the field level.

[Non-smooth Problems in Vehicle Systems Dynamics](#)

Hispanic Engineer & Information Technology is a publication devoted to science and technology and to promoting opportunities in those fields for Hispanic Americans.