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*Metaheuristics for Vehicle Routing Problems* John Wiley & Sons Optical Fiber Telecommunications V (A&B) is the fifth in a series that has chronicled the progress in the research and development of lightwave communications since the early 1970s. Written by active authorities from academia and industry, this edition not only brings a fresh look to many essential topics but also focuses on network management and services. Using high bandwidth in a cost-effective manner for the development of

customer applications is a central theme. This book is ideal for R&D engineers and managers, optical systems implementers, university researchers and students, network operators, and the investment community. Volume (A) is devoted to components and subsystems, including: semiconductor lasers, modulators, photodetectors, integrated photonic circuits, photonic crystals, specialty fibers, polarization-mode dispersion, electronic signal processing, MEMS, nonlinear optical signal processing, and quantum information technologies. Volume (B) is devoted to systems and networks, including: advanced modulation formats, coherent systems, time-multiplexed systems, performance monitoring, reconfigurable add-drop multiplexers, Ethernet technologies, broadband access and services, metro networks, long-haul transmission, optical switching, microwave photonics, computer interconnections , and simulation tools. Biographical Sketches Ivan Kaminow retired from Bell Labs in 1996 after a 42-year career. He conducted seminal studies on electrooptic modulators and materials, Raman scattering in ferroelectrics, integrated optics,

semiconductor lasers (DBR , ridge-waveguide InGaAsP and multi-frequency), birefringent optical fibers, and WDM networks. Later, he led research on WDM components (EDFAs, AWGs and fiber Fabry-Perot Filters), and on WDM local and wide area networks. He is a member of the National Academy of Engineering and a recipient of the IEEE/OSA John Tyndall, OSA Charles Townes and IEEE/LEOS Quantum Electronics Awards. Since 2004, he has been Adjunct Professor of Electrical Engineering at the University of California, Berkeley. Tingye Li retired from AT&T in 1998 after a 41-year career at Bell Labs and AT&T Labs. His seminal work on laser resonator modes is considered a classic. Since the late 1960s, He and his groups have conducted pioneering studies on lightwave technologies and systems. He led the work on amplified WDM transmission systems and championed their deployment for upgrading network capacity. He is a member of the National Academy of Engineering and a foreign member of the Chinese Academy of Engineering. He is a recipient of the IEEE David Sarnoff Award, IEEE/OSA John Tyndall Award, OSA Ives Medal/Quinn Endowment, AT&T Science and Technology Medal, and IEEE Photonics

Award. Alan Willner has worked at AT&T Bell Labs and Bellcore, and he is Professor of Electrical Engineering at the University of Southern California. He received the NSF Presidential Faculty Fellows Award from the White House, Packard Foundation Fellowship, NSF National Young Investigator Award, Fulbright Foundation Senior Scholar, IEEE LEOS Distinguished Lecturer, and USC University-Wide Award for Excellence in Teaching. He is a Fellow of IEEE and OSA, and he has been President of the IEEE LEOS, Editor-in-Chief of the IEEE/OSA J. of Lightwave Technology, Editor-in-Chief of Optics Letters, Co-Chair of the OSA Science & Engineering Council, and General Co-Chair of the Conference on Lasers and Electro-Optics.

***Government-wide Index to Federal Research & Development Reports*** **Springer Nature**

**Modern railways are no longer the sole forte of civil and mechanical engineering. They now involve a broad range of multidisciplinary engineering domains from advanced computing, digital telecommunications, and networking to big data analytics and even artificial intelligence. Among the emerging technologies and innovations in railways, hyperloop transportation systems employing magnetic propulsion,**

hydrogen-powered trains, and autonomous intelligent systems in the control and command subsystems of railways have significant potential to improve the performance of railways in terms of speed, service availability, comfort, sustainability, and potentially safety. These innovations will also help mitigate carbon emissions. This volume presents the latest research on railway engineering and transportation and discusses the practices and processes involved in shaping modern railways.

The Journal of Educational Research John Wiley & Sons

This special Issue of the Journal of Nano Research, titled, “Nanomaterials for electrocatalysis and electrochemical energy applications”, contains 20 selected peer-reviewed articles. Topics covered in the Special Issue include energy materials and systems, nanomaterials, nanoprobes, electrochemical kinetics and analytical electrochemistry and electrochemical sensors.

**New Research on Railway Engineering and Transportation** IGI Global

The wide gap between the existing security solutions and the actual practical deployment in smart manufacturing, smart home, and remote environments (with respect to wireless robotics) is one of the major reasons why we require novel strategies,

mechanisms, architectures, and frameworks. Furthermore, it is also important to access and understand the different level of vulnerabilities and attack vectors in Wireless Sensor Network (WSN) and Wireless Robotics. This book includes an in-depth explanation of a secure and dependable Wireless Robotics (WR) architecture, to ensure confidentiality, authenticity, and availability. Features Blockchain technology for securing data at end/server side Emerging technologies/networking, like Cloud, Edge, Fog, etc., for communicating and storing data (securely). Various open issues, challenges faced in this era towards wireless robotics, including several future research directions for the future. Several real world’s case studies are included Chapters on ethical concerns and privacy laws, i.e., laws for service providers Security and privacy

challenges in wireless sensor networks and wireless robotics The book is especially useful for academic researchers, undergraduate students, postgraduate students, and industry researchers and professionals.

A Stable and Transparent Framework for Adaptive Shared Control of Robots
BoD – Books on Demand
In attempts to reduce greenhouse gas emissions, many alternatives to manufacturing have been recommended from a number of international organizations. Although challenges will arise, remanufacturing has the ability to transform ecological and business value. Computational Intelligence in Remanufacturing introduces various computational intelligence techniques that are applied to remanufacturing-related issues, results, and lessons from specific applications while highlighting future development and research. This book is an essential reference for students, researchers, and practitioners in mechanical, industrial, and electrical engineering.

ECRM2014-Proceedings of the 13th European Conference on Research Methodology for Business and Management Studies
Edward Elgar Publishing
The topic of "Energy Efficiency in Communications and Networks" attracts growing attention due to economical and environmental reasons. The amount of power consumed by information and communication technologies (ICT) is rapidly increasing, as well as the energy bill of service providers. According to a number of studies,

ICT alone is responsible for a percentage which varies from 2% to 10% of the world power consumption. Thus, driving rising cost and sustainability concerns about the energy footprint of the IT infrastructure. Energy-efficiency is an aspect that until recently was only considered for battery driven devices. Today we see energy-efficiency becoming a pervasive issue that will need to be considered in all technology areas from device technology to systems management. This book is seeking to provide a compilation of novel research contributions on hardware design, architectures, protocols and algorithms that will improve the energy efficiency of communication devices and networks and lead to a more energy proportional technology infrastructure. Research and Development on Single Crystal High Resistivity Cadmium Telluride for Use as a Gamma-ray Spectrometer BoD – Books on Demand Data science, data engineering and knowledge engineering requires networking and communication as a backbone and have wide scope of implementation in engineering sciences. Keeping this ideology in preference, this book includes the insights that reflect the advances in these fields from upcoming researchers and leading academicians across the globe. It contains high-quality peer-reviewed papers of ‘ International Conference on Recent Advancement in Computer, Communication and Computational Sciences (ICRACCCS 2016) ’ , held at Janardan Rai Nagar Rajasthan Vidyapeeth University, Udaipur, India, during 25 – 26 November 2016. The volume covers variety of topics such as Advanced Communication Networks, Artificial Intelligence and Evolutionary Algorithms, Advanced Software Engineering and Cloud Computing, Image Processing and Computer Vision, and Security. The book will help the perspective readers from computer industry and academia to derive the advances

of next generation communication and computational technology and shape them into real life applications.

IMF Research Bulletin, March 2016

Springer

The Routledge Companion to Strategic Marketing offers the latest insights into marketing strategy. Bodo Schlegelmilch and Russ Winer present 29 specially commissioned chapters, which include up-to-date thinking on a diverse range of marketing strategy topics. Readers benefit from the latest strategic insights of leading experts from universities around the world. Contributing authors are from, among others, the U.S. (Berkeley, Cornell, MIT, New York University, Texas A&M), Europe (the Hanken School of Economics, INSEAD, the University of Oxford, the University of Groningen, WU Vienna) and Asia (the Indian School of Business, Tongji University). The topics addressed include economic foundations of marketing strategy, competition in digital marketing strategy (e.g. mobile payment systems and social media strategy), marketing strategy, and corporate social responsibility, as well as perspectives on capturing the impact of marketing strategy. Collectively, this authoritative guide is an accessible tool for researchers, students, and practitioners.

*Analog and Mixed-Signal Circuits in Nanoscale CMOS*

Springer Nature

This book provides readers with a single-source reference to the state-of-the-art in analog and mixed-signal circuit design in nanoscale CMOS. Renowned authors from academia describe creative circuit solutions and techniques, in state-of-the-art designs, enabling readers to

deal with today ' s technology demands for high integration levels with a strong miniaturization capability.

**The Indian Journal of Medical Research** Academic Press This book is a compilation of research work in the interdisciplinary areas of electronics, communication, and computing. This book is specifically targeted at students, research scholars and academicians. The book covers the different approaches and techniques for specific applications, such as particle-swarm optimization, Otsu ' s function and harmony search optimization algorithm, triple gate silicon on insulator (SOI)MOSFET, micro-Raman and Fourier Transform Infrared Spectroscopy (FTIR) analysis, high-k dielectric gate oxide, spectrum sensing in cognitive radio, microstrip antenna, Ground-penetrating radar (GPR) with conducting surfaces, and digital image forgery detection. The contents of the book will be useful to academic and professional researchers alike.

Waveform Design for Active Sensing Systems Springer This book is dedicated to metaheuristics as applied to vehicle routing problems. Several implementations are given as illustrative examples, along with applications to several typical vehicle routing problems. As a first step, a general presentation intends to make the reader more familiar with the related field of logistics and combinatorial optimization. This preamble is completed with a description of significant heuristic methods classically used to provide feasible solutions quickly, and local improvement moves widely used to search for enhanced solutions. The overview of these fundamentals allows appreciating the core of the work devoted to an analysis of metaheuristic methods for vehicle

routing problems. Those methods are exposed according to their feature of working either on a sequence of single solutions, or on a set of solutions, or even by hybridizing metaheuristic approaches with others kind of methods.

**Advances in Ergonomics in Design** Cambridge University Press In today's rapidly evolving technological and economic landscape, organizations face the crucial problem of how to optimize their production processes and services to meet the demands of the digital age. The solution lies in technologies such as Artificial Intelligence (AI), the Internet of Things (IoT), Blockchain, and virtual environments, which offer the potential to automate, accelerate, and improve processes, thereby boosting productivity while also reducing costs. Implementing these technologies requires a dynamic understanding of their capabilities, and many organizational leaders struggle to adapt them to specific organizational contexts without a complete knowledge of the tools at their disposal. The book, edited by Professor Marisol Hern á ndez Hern á ndez, Streamlining Organizational Processes Through AI, IoT, Blockchain, and Virtual Environments, offers a comprehensive solution to the problem of effective implementation of these technologies into existing organizational processes. Drawing on her extensive experience in

information technology, software engineering, and fuzzy logic, she provides a roadmap for organizations seeking to optimize their processes and services through the latest emerging technologies. This book is ideal for professionals and researchers who want to stay ahead of the curve in the digital age, and who need practical guidance on how to implement these technologies in their organizations. The book covers a range of topics, including AI, fuzzy logic, IoT, and embedded systems. It a significant contribution to the field of technology and innovation, providing a roadmap for organizations seeking to thrive in the digital age. It is a must-read for anyone interested in the optimization of industrial or service processes and will be of particular interest to executives and students searching for innovative solutions to organizational challenges. Energy Research Abstracts IGI Global Presents strategies with reachability graph analysis for optimizing resource allocation systems Supervisory Control and Scheduling of Resource Allocation Systems offers an important guide to Petri net (PN) models and methods for supervisory control and system scheduling of resource allocation systems (RASs). Resource allocation systems are common in automated manufacturing systems, project management systems, cloud data centers, and software engineering systems. The

authors—two experts on the topic—present a definition, techniques, models, and state-of-the art applications of supervisory control and scheduling problems. The book introduces the basic concepts and research background on resource allocation systems and Petri nets. The authors then focus on the deadlock-free supervisor synthesis for RASs using Petri nets. The book also investigates the heuristic scheduling of RASs based on timed Petri nets. Conclusions and open problems are provided in the last section of the book. This important book: Includes multiple methods for supervisory control and scheduling with reachability graphs, and provides illustrative examples Reveals how to accelerate the supervisory controller design and system scheduling of RASs based on PN reachability graphs, with optimal or near-optimal results Highlights both solution quality and computational speed in RAS deadlock handling and system scheduling Written for researchers, engineers, scientists, and professionals in system planning and control, engineering, operation, and management, Supervisory Control and Scheduling of Resource Allocation Systems provides an essential guide to the supervisory control and scheduling of resource allocation systems (RASs) using Petri net reachability graphs, which allow for multiple resource acquisitions and flexible routings. *International Handbook of*

*Research in Professional and Practice-based Learning* CRC Press When the objectives of public policy programmes have been formulated and decided upon, implementation seems just a matter of following instructions. However, it is underway to the realization of those objectives that public policies get their final substance and form. Crucial is what happens in and around the encounter between public officials and individual citizens at the street level of government bureaucracy. This Research Handbook addresses the state of the art while providing a systematic exploration of the theoretical and methodological issues apparent in the study of street-level bureaucracy and how to deal with them.

*Computational Intelligence in Remanufacturing* Springer Nature This book offers the latest advances and results in the fields of Machine Learning and Deep Learning for Wireless Communication and provides positive and critical discussions on the challenges and prospects. It provides a broad spectrum in understanding the improvements in Machine Learning and Deep Learning that are motivating by the specific constraints posed by wireless networking systems. The book offers an extensive overview on intelligent Wireless Communication systems and its underlying technologies, research challenges, solutions, and case studies. It provides information on intelligent wireless communication systems and its models, algorithms and applications. The book is written as a reference that

offers the latest technologies and research results to various industry problems.

2023 IEEE 13th International Conference on Electronics Information and Emergency Communication (ICEIEC). Academic Conferences Limited

The Sage Handbook of Research on Classroom Assessment provides scholars, professors, graduate students, and other researchers and policy makers in the organizations, agencies, testing companies, and school districts with a comprehensive source of research on all aspects of K-12 classroom assessment. The handbook emphasizes theory, conceptual frameworks, and all varieties of research (quantitative, qualitative, mixed methods) to provide an in-depth understanding of the knowledge base in each area of classroom assessment and how to conduct inquiry in the area. It presents classroom assessment research to convey, in depth, the state of knowledge and understanding that is represented by the research, with particular emphasis on how classroom assessment practices affect student achieventment and teacher behavior. Editor James H. McMillan and five Associate Editors bring the best thinking and analysis from leading classroom assessment researchers on the nature of the research, making significant contributions to this prominent and hotly debated topic

in education. Intelligent Sensing and Communications for Internet of Everything SAGE Publications
The IMF Research Bulletin includes listings of recent IMF Working Papers and Staff Discussion Notes. The research summaries in this issue are "Explaining the Recent Slump in Investment" (Mathieu Bussiere, Laurent Ferrara, and Juliana Milovich) and "The Quest for Stability in the Housing Markets" (Hites Ahir). The Q&A column reviews "Seven Questions on Estimating Monetary Transmission Mechanism in Low-Income Countries" (Bin Grace Li, Christopher Adam, and Andrew Berg). Also included in this issue are updates on the IMF's official journal, the IMF Economic Review, and recommended readings from IMF Publications.

**Advances in Electronics, Communication and Computing** International Monetary Fund
This book provides readers with a timely snapshot of ergonomics research and methods applied to the design, development and evaluation, of products, systems and services. It gathers theoretical contributions, case studies and reports on technical interventions focusing on a better understanding of human machine interaction, and user experience for improving product design. The book covers a wide range of established and emerging topics in user-centered design, relating to design for special populations, design

education, workplace assessment and design, anthropometry, ergonomics of buildings and urban design, sustainable design, as well as visual ergonomics and interdisciplinary research and practices, among others. Based on the AHFE 2021 International Conference on Ergonomics in Design, held virtually on 25 – 29 July, 2021, from USA, the book offers a thought-provoking guide for both researchers and practitioners in human-centered design and related fields.

*The Journal of Juvenile Research*
Elsevier

The International Handbook of Research in Professional and Practice-based Learning discusses what constitutes professionalism, examines the concepts and practices of professional and practice-based learning, including associated research traditions and educational provisions. It also explores professional learning in institutions of higher and vocational education as well the practice settings where professionals work and learn, focusing on both initial and ongoing development and how that learning is assessed. The Handbook features research from expert contributors in education, studies of the professions, and accounts of research methodologies from a range of informing disciplines. It is organized in two parts. The first part sets out conceptions of professionalism at work, how professions, work and learning can be understood, and examines the kinds of institutional practices organized for developing occupational capacities. The second part focuses

on procedural issues associated with learning for and through professional practice, and how assessment of professional capacities might progress. The key premise of this Handbook is that during both initial and ongoing professional development, individual learning processes are influenced and shaped through their professional environment and practices. Moreover, in turn, the practice and processes of learning through practice are shaped by their development, all of which are required to be understood through a range of research orientations, methods and findings. This Handbook will appeal to academics working in fields of professional practice, including those who are concerned about developing these capacities in their students. In addition, students and research students will also find this Handbook a key reference resource to the field.

*IP over WDM*

John Wiley & Sons

Ideal for researchers and practitioners looking to develop and use computational algorithms for waveform design in diverse active sensing applications.