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Interdisciplinary Research
in Technology and
Management Springer

Nature

These two volumes, LNCS 7076 and LNCS 7077, constitute the refereed proceedings of the Second International Conference on Swarm, Evolutionary, and Memetic Computing, SEMCCO 2011, held in Visakhapatnam, India, in December 2011. The 124

revised full papers presented in both volumes were carefully reviewed and selected from 422 submissions. The papers explore new application areas, feature new bio-inspired algorithms for solving specific hard optimization problems, and review the latest progresses in the cutting-edge research with swarm, evolutionary, and memetic computing in both theoretical and practical aspects.

Proceedings of 2023 Chinese Intelligent Systems Conference
CRC Press

In this book, the authors first introduce two fish-like underwater robots, including a multiple fins-actuated robotic fish and a caudal fin-actuated robotic fish with a barycenter regulating mechanism. They study how a robotic fish uses its onboard pressure sensor arrays based-ALLS to estimate its trajectory in multiple

locomotions, including rectilinear motion, turning motion, ascending motion, and spiral motion. In addition, they also explore the ALLS-based relative position and attitude perception between two robotic fish in a leader-follower formation. Four regression methods—multiple linear regression methods, support vector regressions, back propagation neural networks, and random forest methods—are used to evaluate the relative positions or attitudes using the ALLS data. The research on ALLS-based local sensing between two adjacent fish robots extends current research from one individual underwater robot to two robots in formation, and will attract increasing attention from scholars of robotics, underwater technology, biomechanics and systems, and control engineering.

Ad Hoc and Sensor Wireless Networks: Architectures, Algorithms and Protocols CRC Press

This book presents

a collection of high-quality, peer-reviewed research papers from the 6th International Conference on Information System Design and Intelligent Applications (INDIA 2019), held at Lendi Institute of Engineering & Technology, India, from 1 to 2 November 2019. It covers a wide range of topics in computer science and information technology, including data mining and data warehousing, high-performance computing, parallel and distributed computing,

computational intelligence, soft computing, big data, cloud computing, grid computing and cognitive computing. Comprehensive Remote Sensing Springer With the growing popularity of wireless networks in recent years, the need to increase network capacity and efficiency has become more prominent in society. This has led to the development and implementation of heterogeneous networks. Resource Allocation in Next-Generation Broadband Wireless Access Networks is a comprehensive reference source for the latest scholarly research on upcoming 5G technologies for next generation mobile networks, examining the

various features, solutions, and challenges associated with such advances. Highlighting relevant coverage across topics such as energy efficiency, user support, and adaptive multimedia services, this book is ideally designed for academics, professionals, graduate students, and professionals interested in novel research for wireless innovations.

Advances in Nonlinear Systems and Networks

CRC Press

This edition of this handbook updates and expands its review of the research, theory, issues and methodology that constitute the field of educational communications and technology. Organized into seven sectors, it profiles and integrates the following elements of this rapidly changing field.

Document Analysis and

Recognition - ICDAR

2024 Springer Science & Business Media

This thirteenth volume of Collected Papers is an eclectic tome of 88 papers in various fields of sciences, such as astronomy, biology, calculus, economics, education and administration, game theory, geometry, graph theory, information fusion, decision making, instantaneous physics, quantum physics, neutrosophic logic and set, non-Euclidean geometry, number theory, paradoxes, philosophy of science, scientific research methods, statistics, and others, structured in 17 chapters (Neutrosophic Theory and Applications; Neutrosophic Algebra;

Fuzzy Soft Sets;
Neutrosophic Sets;
Hypersoft Sets;
Neutrosophic
Semigroups;
Neutrosophic Graphs;
Superhypergraphs;
Plithogeny; Information
Fusion; Statistics;
Decision Making;
Extenics; Instantaneous
Physics; Paradoxism;
Mathematica;
Miscellanea), comprising
965 pages, published
between 2005-2022 in
different scientific
journals, by the author
alone or in collaboration
with the following 110 co-
authors (alphabetically
ordered) from 26
countries: Abdullallah
Gamal, Sania Afzal, Firoz
Ahmad, Muhammad
Akram, Sheriful Alam, Ali
Hamza, Ali H. M. Al-
Obaidi, Madeleine Al-

Tahan, Assia Bakali, Atiqe
Ur Rahman, Sukanto
Bhattacharya, Bilal
Hadjadji, Robert N. Boyd,
Willem K.M. Brauers, Umit
Cali, Youcef Chibani,
Victor Christianto,
Chunxin Bo, Shyamal
Dalapati, Mario Dalcín,
Arup Kumar Das, Elham
Daveshvar, Bijan
Davvaz, Irfan Deli,
Muhammet Deveci,
Mamouni Dhar, R.
Dhavaseelan,
Balasubramanian
Elavarasan, Sara Farooq,
Haipeng Wang, Ugur
Halden, Le Hoang Son,
Hongnian Yu, Qays
Hatem Imran, Mayas
Ismail, Saeid Jafari, Jun
Ye, Ilanthenral
Kandasamy, W.B.
Vasanth Kandasamy,
Darjan Karabaševi?,
Abdullah Kargın, Vasilios
N. Katsikis, Nour Eldeen

M. Khalifa, Madad Khan, Shananda Saha,
M. Khoshnevisan, Tapan Marayanagaraj
Kumar Roy, Pinaki Shanmugapriya, Songtao
Majumdar, Sreepurna Shao, Sori Tjandrah
Malakar, Masoud Ghods, Simbolon, Florentin
Minghao Hu, Mingming Smarandache, Predrag S.
Chen, Mohamed Abdel- Stanimirovi?, Dragiša
Basset, Mohamed Talea, Stanujki?, Raman
Mohammad Hamidi, Sundaeswaran, Mehmet
Mohamed Loey, Mihnea ?ahin, Ovidiu-Ilie ?andru,
Alexandru Moiescu, Abdulkadir ?engür,
Muhammad Ihsan, Mohamed Talea, Ferhat
Muhammad Saeed, Ta?, Selçuk Topal,
Muhammad Shabir, Alptekin Uluta?,
Mumtaz Ali, Muzzamal Ramalingam
Sitara, Nassim Abbas, Udhayakumar, Yunita
Munazza Naz, Giorgio Umniyati, J. Vimala, Luige
Nordo, Mani Parimala, Ion VI?d?reanu, ?tefan
P?tra?cu, Gabrijela VI?du?escu, Yaman
Popovi?, K. Porselvi, Akbulut, Yanhui Guo,
Surapati Pramanik, D. Yong Deng, You He,
Preethi, Qiang Guo, Riad Young Bae Jun, Wangtao
K. Al-Hamido, Zahra Yuan, Rong Xia,
Rostami, Said Broumi, Xiaohong Zhang,
Saima Anis, Muzafer Edmundas Kazimieras
Sara?evi?, Ganeshsree Zavadskas, Zayen Azzouz
Selvachandran, Selvaraj Omar, Xiaohong Zhang,
Ganesan, Shammya Zhirou Ma.

Resource Allocation in Next-Generation Broadband Wireless Access Networks IGI Global
Advances in Computing, Communication, Automation and Biomedical Technology aims to bring together leading academic, scientists, researchers, industry representatives, postdoctoral fellows and research scholars around the world to share their knowledge and research expertise, to advances in the areas of Computing, Communication, Electrical, Civil, Mechanical and Biomedical Systems as well as to create a prospective collaboration and networking on various areas. It also provides a premier interdisciplinary platform for researchers, practitioners, and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered, and solutions adopted in the fields of innovation.

Handbook of Research for Educational Communications and Technology Taylor & Francis
"This Ebook brings together the latest developments and studies of Mobile Ad Hoc Networks (MANETs) and Wireless Sensor Networks (WSNs), which should provide a seedbed for new breakthroughs. It focuses on the most representative topics in MANETs and WSNs, s"
Bionic Sensing with Artificial Lateral Line Systems for Fish-Like Underwater Robots
CRC Press
This SpringerBrief investigates cross layer resource allocation in unlicensed LTE (Long Term Evolution) HetNets. Specifically, the authors

study and cover the radio access management of unlicensed LTE to allow efficient spectrum utilization and harmonious coexistence with other unlicensed systems in this brief. Efficient radio access protocols are developed to allow unlicensed LTE users to fair share channel access with unlicensed users in different systems, including Wi-Fi and unlicensed LTE of other operators. An analytical model is developed to study the performance of the proposed protocols. To achieve efficient spectrum sharing among various unlicensed users, the authors further formulate a resource allocation problem based on Nobel Prize winning game theory framework,

and propose efficient algorithms to achieve the maximal user utility. Opportunistic traffic offloading from licensed band to unlicensed bands is also investigated, based on the network formation game. By exploiting the characteristics of mobile social networks, the offloading performance can be further enhanced. This brief targets researchers and engineers from both academia and industry interested in the development of LTE over unlicensed bands, as well as the design and implementation of cross layer radio resource management. Students studying electrical engineering and computer science will also find this brief useful for their

studies.

**Emerging Research on
Swarm Intelligence and
Algorithm Optimization**

CRC Press

These two volumes constitute the proceedings of the 21st International Conference, ICSOC 2023, held Rome, Italy, during November 28–December 1, 2023. The 35 full papers and the 10 short papers included in this volume were carefully reviewed and selected from 208 submissions. The volumes focus on cutting-edge topics like artificial intelligence, machine learning, big data analytics, the Internet of Things (IoT), and emerging technologies such as quantum computing, blockchain, chatbots, and sustainable green IT solutions.

Journal of Research

Springer Nature

Advances in

Hyperspectral Image Processing Techniques
Authoritative and comprehensive resource covering recent hyperspectral imaging techniques from theory to applications
Advances in Hyperspectral Image Processing Techniques is derived from recent developments of hyperspectral imaging (HSI) techniques along with new applications in the field, covering many new ideas that have been explored and have led to various new directions in the past few years. The work gathers an array of disparate research into one resource and explores its numerous applications across a wide variety of disciplinary areas. In particular, it includes an introductory

chapter on fundamentals of HSI and a chapter on extensive use of HSI techniques in satellite on-orbit and on-board processing to aid readers involved in these specific fields. The book's content is based on the expertise of invited scholars and is categorized into six parts. Part I provides general theory. Part II presents various Band Selection techniques for Hyperspectral Images. Part III reviews recent developments on Compressive Sensing for Hyperspectral Imaging. Part IV includes Fusion of Hyperspectral Images. Part V covers Hyperspectral Data Unmixing. Part VI offers different views on Hyperspectral Image Classification. Specific

sample topics covered in Advances in Hyperspectral Image Processing Techniques include: Two fundamental principles of hyperspectral imaging Constrained band selection for hyperspectral imaging and class information-based band selection for hyperspectral image classification Restricted entropy and spectrum properties for hyperspectral imaging and endmember finding in compressively sensed band domain Hyperspectral and LIDAR data fusion, fusion of band selection methods for hyperspectral imaging, and fusion using multi-dimensional information Advances in spectral unmixing of hyperspectral data and fully constrained least squares linear

spectral mixture analysis
Sparse representation-
based hyperspectral
image classification;
collaborative
hyperspectral image
classification; class-
feature weighted
hyperspectral image
classification; target
detection approach to
hyperspectral image
classification With many
applications beyond
traditional remote sensing,
ranging from defense and
intelligence, to agriculture,
to forestry, to
environmental monitoring,
to food safety and
inspection, to medical
imaging, *Advances in
Hyperspectral Image
Processing Techniques* is
an essential resource on
the topic for industry
professionals,
researchers, academics,

and graduate students
working in the field.
*Swarm, Evolutionary, and
Memetic Computing, Part
II* CRC Press
CISTI is a technical and
scientific event, whose
purpose is to present and
discuss knowledge, new
perspectives,
experiences and
innovations in the
Information Systems and
Technologies field
*Silicon Photonics for High-
Performance Computing and
Beyond* Routledge
The Internet of Things (IoT)
has made revolutionary
advances in the utility grid as
we know it. Among these
advances, intelligent medical
services are gaining much
interest. The use of Artificial
Intelligence (AI) is increasing
day after day in fighting one of
the most significant viruses,
COVID-19. The purpose of
this book is to present the
detailed recent exploration of

AI and IoT in the COVID-19 pandemic and similar applications. The integrated AI and IoT paradigm is widely used in most medical applications, as well as in sectors that deal with transacting data every day. This book can be used by computer science undergraduate and postgraduate students; researchers and practitioners; and city administrators, policy makers, and government regulators. It presents a smart and up-to-date model for COVID-19 and similar applications. Novel architectural and medical use cases in the smart city project are the core aspects of this book. The wide variety of topics it presents offers readers multiple perspectives on a variety of disciplines. Prof. Dr. Fadi Al-Turjman received his PhD in computer science from Queen's University, Kingston, Ontario, Canada, in 2011. He is a full professor and research center director at Near East

University, Nicosia, Cyprus.
Energy Research Abstracts
Springer Nature
Provides a comprehensive introduction to the latest research in networking
Explores implementation issues and research challenges
Focuses on applications and enabling technologies
Covers wireless technologies, Big Data, IoT, and other emerging research areas
Features contributions from worldwide experts
Journal of Research of the National Bureau of Standards
Infinite Study
The conference on 'Interdisciplinary Research in Technology and Management' was a bold experiment in deviating from the traditional approach of conferences which focus on a specific topic or theme. By attempting to

bring diverse inter-related topics on a common platform, the conference has sought to answer a long felt need and give a fillip to interdisciplinary research not only within the technology domain but across domains in the management field as well. The spectrum of topics covered in the research papers is too wide to be singled out for specific mention but it is noteworthy that these papers addressed many important and relevant concerns of the day.

Service-Oriented Computing
CRC Press

This book constitutes the refereed post-conference proceedings of the First International Conference on Intelligent Cloud Computing, held in Muscat, Oman, in February 2014. The 10 revised full papers presented

were carefully reviewed and selected from 18 submissions. The papers cover topics in the areas of resource management and energy efficiency and security. They include 5 invited talks from leading organizations working in cloud computing in Oman and in the region.

Advances in Hyperspectral Image Processing Techniques
Frontiers Media SA

This book constitutes the refereed proceedings of the 7th International Conference on Next Generation Teletraffic and Wired/Wireless Advanced Networking, NEW2AN 2007. The 39 revised full papers presented were carefully reviewed and selected from a total of 113 submissions. The papers are organized in topical sections on teletraffic, traffic characterization and modeling, 3G/UMTS, sensor networks, WLAN,

QoS, MANETs, lower layer techniques, PAN technologies, and TCP. *Sentimental Analysis and Deep Learning* Elsevier

With the rapid growth of technology in society, communication networks have become a heavily researched topic. Implementing these advanced systems is a challenge, however, due to the abundance of optimization problems within these networks. The use of meta-heuristic algorithms and nature-inspired computing has become a prevalent technique among researchers for solving these complex problems within communication networks. Despite its popularity, this specific computing technique lacks the appropriate amount of research that is needed for professionals to grasp a

definite understanding. *Nature-Inspired Computing Applications in Advanced Communication Networks* is a collection of innovative research on the methods and applications of natural computation techniques and algorithms within communication systems such as wireless sensor networks, vehicular adhoc networks, and internet of things. While highlighting topics including mobile sensor deployment, routing optimization, and sleep scheduling, this book is ideally designed for researchers, network professionals, computer scientists, mathematicians, developers, scholars, educators, and students seeking to enhance their understanding of nature-inspired computing and its solutions within various advanced communication networks.

Blockchain and Trustworthy Systems John Wiley & Sons

This book constitutes the thoroughly refereed post conference papers of the Second International Conference on Blockchain and Trustworthy Systems, Blocksys 2020, held in Dali, China*, in August 2020. The 42 full papers and the 11 short papers were carefully reviewed and selected from 100 submissions. The papers are organized in topical sections: theories and algorithms for blockchain, performance optimization of blockchain, blockchain security and privacy, blockchain and cloud computing, blockchain and internet of things, blockchain and mobile edge computing, blockchain and smart contracts, blockchain and data mining, blockchain services and applications, trustworthy system development. *The conference was held virtually due to the COVID-19 pandemic.

Next Generation Teletraffic and Wired/Wireless Advanced Networking IGI Global

This book represents a unique collection of the latest developments in the rapidly developing world of optoelectronics. The contributing authors to this book are a group of internationally distinguished researchers. This book consists of a collection of chapters divided into two sections, with the first section covering new applications and the second section covering materials and crystal structures topics to support future generations of optoelectronic devices and open the door for future, more demanding applications. This collection of chapters will be of considerable interest to scientists, engineers, physicists, and

technologists working in
research and development
in the fields of
optoelectronics and
photonics, as well as to
young researchers who are
at the beginning of their
career.