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The Construction Industry in the Fourth Industrial Revolution

Intelligent Decision Making Through Bio-Inspired Optimization

Space Division Multiple Access for Wireless Local Area Networks

Mobile and Wireless Communications

Proceedings of the Second International Conference on Emerging Trends in Engineering (ICETE 2023)

A Gentle Introduction to Optimization

Simulated Evolution and Learning

Proceedings

Proceedings of the 1994 IEEE South African Symposium on Communications and Signal Processing, COMSIG-94, Tuesday, October 4, 1994, University of Stellenbosch, Stellenbosch

International Journal of Mainstream Social Science

Enhancement of Grid-Connected Photovoltaic

Systems Using Artificial Intelligence

Self-Healing at the Nanoscale

Applied Optimization Methods for Wireless Networks

Smart Energy and Advancement in Power

Technologies

Subject Guide to Books in Print

Engineering Optimization

Responsible Design, Implementation and Use of
Information and Communication Technology

Ant Colony Optimization

Proceedings of Eighth International Congress on
Information and Communication Technology

Satellite Personal Communications for Future-
generation Systems

ECOC '98 : 24th European Conference on Optical
Communication: Regular and invited papers

Recent Advances in Energy Technologies

Solving Computationally Expensive Engineering
Problems

Mobile Computing and Sustainable Informatics

ICIW2012-Proceedings of the 7th International
Conference on Information Warfare and Security

Lees' Loss Prevention in the Process Industries

Communication Planning Revisited

Convex Optimization

Magazines for Libraries

Interference Mitigation and Energy Management
in 5G Heterogeneous Cellular Networks

The Role of Population Games in the Design of
Optimization-Based Controllers

Mathematics of Public Key Cryptography

Conference Record

Connectionist Models of Neurons, Learning
Processes, and Artificial Intelligence

Performance Evaluation of Computer and
Communication Systems. Milestones and Future

Challenges

An Interdisciplinary Approach to Modern Network Security

Emerging Technologies for Connected Internet of Vehicles and Intelligent Transportation System Networks

ICT Education

Internet of Things

Scientific and Technical Aerospace Reports

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BARKER BRENDEN

The Construction Industry in the Fourth Industrial Revolution

Springer

Nature

An overview of the rapidly growing field of ant colony optimization that describes theoretical findings, the major

algorithms, and current applications.

The complex social behaviors of ants have been much studied by science, and computer scientists are now finding that these behavior patterns can provide models for solving difficult combinatorial optimization

problems. The attempt to develop algorithms inspired by one aspect of ant behavior, the ability to find what computer scientists would call shortest paths, has become the field of ant colony optimization (ACO), the most successful and widely

recognized algorithmic technique based on ant behavior. This book presents an overview of this rapidly growing field, from its theoretical inception to practical applications, including descriptions of many available ACO algorithms and their uses. The book first describes the translation of observed ant behavior into working optimization algorithms. The ant colony metaheuristic is then

introduced and viewed in the general context of combinatorial optimization. This is followed by a detailed description and guide to all major ACO algorithms and a report on current theoretical findings. The book surveys ACO applications now in use, including routing, assignment, scheduling, subset, machine learning, and bioinformatics problems. AntNet, an ACO algorithm

designed for the network routing problem, is described in detail. The authors conclude by summarizing the progress in the field and outlining future research directions. Each chapter ends with bibliographic material, bullet points setting out important ideas covered in the chapter, and exercises. Ant Colony Optimization will be of interest to academic and industry researchers,

graduate students, and practitioners who wish to learn how to implement ACO algorithms.

Intelligent Decision Making Through Bio-Inspired Optimization

Springer Science & Business Media Optimization is an essential technique for solving problems in areas as diverse as accounting, computer science and engineering. Assuming only basic linear algebra and

with a clear focus on the fundamental concepts, this textbook is the perfect starting point for first- and second-year undergraduate students from a wide range of backgrounds and with varying levels of ability. Modern, real-world examples motivate the theory throughout. The authors keep the text as concise and focused as possible, with more advanced material treated

separately or in starred exercises. Chapters are self-contained so that instructors and students can adapt the material to suit their own needs and a wide selection of over 140 exercises gives readers the opportunity to try out the skills they gain in each section. Solutions are available for instructors. The book also provides suggestions for further reading to help students take the next

step to more advanced material.

Space Division Multiple Access for Wireless Local Area Networks

Springer

This book comprises peer-reviewed proceedings of the International Conference on Smart Energy and Advancement in Power Technologies (ICSEAPT-2021). The book includes peer-reviewed papers on renewable energy economics and policy,

renewable energy resource assessment, operations management and sustainability, energy audit, global warming, waste and resource management, green energy deployment, green buildings, integration of green energy, energy efficiency, etc.

The book serves as a valuable reference resource for academics and researchers across the globe.

Mobile and Wireless Communications

Springer

In recent years, wireless networks have become more ubiquitous and integrated into everyday life. As such, it is increasingly imperative to research new methods to boost cost-effectiveness for spectrum and energy efficiency. Interference Mitigation and Energy Management in 5G Heterogeneous Cellular Networks is a pivotal reference source for the

latest research on emerging network architectures and mitigation technology to enhance cellular network performance and dependency. Featuring extensive coverage across a range of relevant perspectives and topics, such as interference alignment, resource allocation, and high-speed mobile environments, this book is ideally designed for engineers,

professionals, practitioners, upper-level students, and academics seeking current research on interference and energy management for 5G heterogeneous cellular networks. *Proceedings of the Second International Conference on Emerging Trends in Engineering (ICETE 2023)* Cambridge University Press
A Rigorous Mathematical Approach To Identifying A Set Of Design Alternatives

And Selecting The Best Candidate From Within That Set, Engineering Optimization Was Developed As A Means Of Helping Engineers To Design Systems That Are Both More Efficient And Less Expensive And To Develop New Ways Of Improving The Performance Of Existing Systems. Thanks To The Breathtaking Growth In Computer Technology That Has Occurred Over The Past

<p>Decade, Optimization Techniques Can Now Be Used To Find Creative Solutions To Larger, More Complex Problems Than Ever Before. As A Consequence, Optimization Is Now Viewed As An Indispensable Tool Of The Trade For Engineers Working In Many Different Industries, Especially The Aerospace, Automotive, Chemical, Electrical, And Manufacturing Industries. In Engineering Optimization,</p>	<p>Professor Singiresu S. Rao Provides An Application-Oriented Presentation Of The Full Array Of Classical And Newly Developed Optimization Techniques Now Being Used By Engineers In A Wide Range Of Industries. Essential Proofs And Explanations Of The Various Techniques Are Given In A Straightforward, User-Friendly Manner, And Each Method Is Copiously Illustrated</p>	<p>With Real-World Examples That Demonstrate How To Maximize Desired Benefits While Minimizing Negative Aspects Of Project Design. Comprehensive, Authoritative, Up-To-Date, Engineering Optimization Provides In-Depth Coverage Of Linear And Nonlinear Programming, Dynamic Programming, Integer Programming, And Stochastic Programming Techniques As Well As</p>
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<p>Several Breakthrough Methods, Including Genetic Algorithms, Simulated Annealing, And Neural Network-Based And Fuzzy Optimization Techniques. Designed To Function Equally Well As Either A Professional Reference Or A Graduate-Level Text, Engineering Optimization Features Many Solved Problems Taken From Several Engineering Fields, As Well As Review</p>	<p>Questions, Important Figures, And Helpful References. Engineering Optimization Is A Valuable Working Resource For Engineers Employed In Practically All Technological Industries. It Is Also A Superior Didactic Tool For Graduate Students Of Mechanical, Civil, Electrical, Chemical And Aerospace Engineering. <i>A Gentle Introduction to Optimization</i> IEEE Computer Society Press</p>	<p>This advanced graduate textbook gives an authoritative and insightful description of the major ideas and techniques of public key cryptography. Simulated Evolution and Learning CRC Press This book gathers papers from the 11th Construction Industry Development Board (cidb) Postgraduate Research Conference, held on 28–30 July 2019 in Johannesburg, South Africa. The</p>
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conference provided an essential forum for reviewing and generating knowledge on Construction 4.0 and, consequently, highlighted processes and practices that allow us to deliver and operate built environment assets more effectively and efficiently by focusing on physical-to-digital and digital-to-physical transformation . The event addressed three broad themes: Industrial production

(prefabrication , 3-D printing and assembly, offsite and advanced manufacturing); Cyber-physical systems (actuators, sensors, IoT, robots and cobots for repetitive and dangerous tasks, and drones for mapping, progress monitoring, safety and quality inspections, lifting, moving and positioning); and Technologies (digital ecosystems, digital platforms,

BIM, video and laser scanning, AI and cloud computing, big data and data analytics, reality capture, blockchain, simulation, virtual and augmented reality, data standards and interoperability, and vertical and horizontal integration). Given its scope, the book will be of interest to all construction industry and architectural professionals who want to learn about cutting-edge technologies applied to

construction
Proceedings
Butterworth-
Heinemann
This two-
volume set
constitutes
the
proceedings of
the 19th IFIP
WG 6.11
Conference on
e-Business, e-
Services, and
e-Society, I3E
2020, held in
Skukuza,
South Africa,
in April 2020.*
The total of 80
full and 7
short papers
presented in
these volumes
were carefully
reviewed and
selected from
191
submissions.
The papers
are organized
in the

following
topical
sections: Part
I: block chain;
fourth
industrial
revolution;
eBusiness;
business
processes; big
data and
machine
learning; and
ICT and
education Part
II:
eGovernment;
eHealth;
security;
social media;
knowledge
and
knowledge
management;
ICT and
gender
equality and
development;
information
systems for
governance;
and user

experience
and usability
*Due to the
global
COVID-19
pandemic and
the
consequential
worldwide
imposed
travel
restrictions
and lockdown,
the I3E 2020
conference
event
scheduled to
take place in
Skukuza,
South Africa,
was
unfortunately
cancelled.
**Proceedings
of the 1994
IEEE South
African
Symposium
on
Communicati
ons and
Signal**

**Processing,
COMSIG-94,
Tuesday,
October 4,
1994,
University of
Stellenbosch**

**,
Stellenbosch**

Springer
Science &
Business
Media
Communicatio
n Planning
Revisited
*International
Journal of
Mainstream
Social Science*

Springer
Science &
Business
Media

This volume
proposes
novel
transmission
techniques
that achieve
multi-path
mitigation,

through
orthogonal
frequency-
domain
processing, in
combination
with a high
bandwidth
efficiency,
through space
division
multiple
access. It also
pays special
attention to
the real-world
problems
encountered
when
integrating
core detection
algorithms
into a
complete
system.

Enhancement
of Grid-
Connected
Photovoltaic
Systems Using
Artificial
Intelligence

New Age
International
Mobile and
Wireless
Communicatio
ns presents
the latest
developments
in mobile and
wireless
research and
the industry,
with a broad
range of
topics
including: -Ad-
hoc
networking; -
Power control;
-Personal
communicatio
ns; -Satellite; -
QoS; -UMTS
and wireless
LANs; -
Handoffs,
security and
mobility; -
CDMA and
physical layer
including
modulation

and coding; -
Methods of
communicatio
n functions
including
multiple
access, error
control, flow
control and
routing. This
state-of-the-
art volume
comprises the
edited
proceedings of
the Working
Conference on
Personal
Wireless
Communicatio
ns
(PWC'2002),
which was
sponsored by
the
International
Federation for
Information
Processing
(IFIP),
organized by
IFIP Working

Group 6.8,
and held in
Singapore in
October 2002.
Self-Healing at
the Nanoscale
Springer
This book
constitutes,
together with
its companion,
LNCS 2085,
the refereed
proceedings of
the 6th
International
Work-
Conference on
Artificial and
Natural Neural
Networks,
IWANN 2001,
held in
Granada,
Spain, in June
2001. The 200
revised papers
presented
were carefully
reviewed and
selected for
inclusion in

the
proceedings.
The papers
are organized
in sections on
foundations of
connectionism
, biophysical
models of
neurons,
structural and
functional
models of
neurons,
learning and
other
plasticity
phenomena,
complex
systems
dynamics,
artificial
intelligence
and cognitive
processes,
methodology
for nets
design, nets
simulation and
implementatio
n, bio-inspired
systems and

engineering, and other applications in a variety of fields.

Applied Optimization Methods for Wireless Networks
Cambridge University Press
Provides a variety of practical optimization techniques and modeling tips for solving challenging wireless networking problems. Case studies show how the techniques can be applied in practice, homework exercises are given at the

end of each chapter, and PowerPoint slides are available online, together with a solutions manual for instructors. *Smart Energy and Advancement in Power Technologies*
Cambridge University Press
This book discusses vehicular communication systems, IoT, intelligent transportation systems and the Internet of Vehicles, and also introduces destination marketing in a

structured manner. It is primarily intended for research students interested in emerging technologies for connected Internet of Vehicles and intelligent transportation system networks; academics in higher education institutions, including universities and vocational colleges; IT professionals; policy makers; and legislators. The book can also be used as a reference resource for

both undergraduate and graduate studies. Written in plain and simple language, it describes new concepts so that they are accessible to readers without prior knowledge of the field. *Subject Guide to Books in Print* Springer Science & Business Media Academic scholars, entrenched in the complexities of various domains, face the daunting task of

navigating intricate decision-making scenarios. The prevailing need for efficient and effective decision-making tools becomes increasingly apparent as traditional methodologies struggle to keep pace with the demands of modern research and industry. This pivotal issue necessitates a shift, urging scholars to explore unconventional approaches that can transcend

disciplinary boundaries and unlock new dimensions of problem-solving. In response to these pressing challenges, Intelligent Decision Making Through Bio-Inspired Optimization emerges as a beacon of ingenuity. This groundbreaking book transcends usual disciplinary boundaries, seamlessly integrating computer science, artificial intelligence, optimization,

and decision science. Its multidisciplinary approach addresses the inherent complexities faced by scholars, offering a comprehensive exploration of nature-inspired algorithms such as genetic algorithms, swarm intelligence, and evolutionary strategies. The book's core mission is to empower academic scholars with the tools to overcome contemporary decision-

making hurdles, providing a holistic understanding of these bio-inspired approaches and their potential to revolutionize the scholarly landscape. *Engineering Optimization* Springer Nature Internet of Things: Challenges, Advances, and Applications provides a comprehensive introduction to IoT, related technologies, and common issues in the adoption of IoT on a large scale. It

surveys recent technological advances and novel solutions for challenges in the IoT environment. Moreover, it provides detailed discussion of the utilization of IoT and its underlying technologies in critical application areas, such as smart grids, healthcare, insurance, and the automotive industry. The chapters of this book are authored by several international researchers and industry

experts. This book is composed of 18 self-contained chapters that can be read, based on interest. Features: Introduces IoT, including its history, common definitions, underlying technologies, and challenges Discusses technological advances in IoT and implementation considerations Proposes novel solutions for common implementation issues	Explores critical application domains, including large-scale electric power distribution networks, smart water and gas grids, healthcare and e-Health applications, and the insurance and automotive industries The book is an excellent reference for researchers and post-graduate students working in the area of IoT, or related areas. It also targets IT professionals interested in	gaining deeper knowledge of IoT, its challenges, and application areas. <u>Responsible Design, Implementation and Use of Information and Communication Technology</u> CRC Press This book gathers selected high-quality research papers presented at the Eighth International Congress on Information and Communication Technology, held at Brunel
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University, London, on 20-23 February 2023. It discusses emerging topics pertaining to information and communication technology (ICT) for managerial applications, e-governance, e-agriculture, e-education and computing technologies, the Internet of Things (IoT) and e-mining. Written by respected experts and researchers working on ICT, the book offers a valuable asset for young researchers involved in advanced studies. The work is presented in four volumes. Ant Colony Optimization Springer Science & Business Media An Interdisciplinary Approach to Modern Network Security presents the latest methodologies and trends in detecting and preventing network threats. Investigating the potential of current and emerging security technologies, this publication is an all-inclusive reference source for academicians, researchers, students, professionals, practitioners, network analysts and technology specialists interested in the simulation and application of computer network protection. It presents theoretical frameworks and the latest research findings in network

security technologies, while analyzing malicious threats which can compromise network integrity. It discusses the security and optimization of computer networks for use in a variety of disciplines and fields. Touching on such matters as mobile and VPN security, IP spoofing and intrusion detection, this edited collection emboldens the efforts of researchers, academics

and network administrators working in both the public and private sectors. This edited compilation includes chapters covering topics such as attacks and countermeasures, mobile wireless networking, intrusion detection systems, next-generation firewalls, web security and much more. Information and communication systems are an essential component of our society,

forcing us to become dependent on these infrastructures. At the same time, these systems are undergoing a convergence and interconnection process that has its benefits, but also raises specific threats to user interests. Citizens and organizations must feel safe when using cyberspace facilities in order to benefit from its advantages. This book is interdisciplinary in the sense

that it covers a wide range of topics like network security threats, attacks, tools and procedures to mitigate the effects of malware and common network attacks, network security architecture and deep learning methods of intrusion detection.

Proceedings of Eighth International Congress on Information and

Communicati on Technology

Springer Nature
This book constitutes the refereed proceedings of the 6th International Conference on Simulated Evolution and Learning, SEAL 2006, held in Hefei, China in October 2006. The 117 revised full papers presented were carefully reviewed and selected from 420 submissions.
Satellite

Personal Communications for Future-generation Systems

Springer Nature
ECOC is the major European conference on the technology and use of photonics for communications and related system, and is intended to provide an international forum for professionals and experts in all aspects of optical communications.