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**Biologically Inspired Networking
and Sensing: Algorithms and**

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Architectures offers current perspectives and trends in biologically inspired networking, exploring various approaches aimed at improving network paradigms. Research contained within this compendium of

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**research papers and surveys
introduces researches in the fields
of communication networks,
performance modeling, and
distributed computing to new
advances in networking.**

Nature-inspired computation and

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**swarm intelligence have become
popular and effective tools for
solving problems in optimization,
computational intelligence, soft
computing and data science.**

**Recently, the literature in the field
has expanded rapidly, with new**

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**algorithms and applications
emerging. Nature-Inspired
Computation and Swarm**

**Intelligence: Algorithms, Theory
and Applications is a timely
reference giving a comprehensive
review of relevant state-of-the-art**

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**developments in algorithms,
theory and applications of nature-
inspired algorithms and swarm
intelligence. It reviews and
documents the new developments,
focusing on nature-inspired
algorithms and their theoretical**

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**analysis, as well as providing a
guide to their implementation.**

**The book includes case studies of
diverse real-world applications,
balancing explanation of the
theory with practical
implementation. Nature-Inspired**

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**Computation and Swarm
Intelligence: Algorithms, Theory
and Applications is suitable for
researchers and graduate students
in computer science, engineering,
data science, and management
science, who want a**

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**comprehensive review of
algorithms, theory and
implementation within the fields
of nature inspired computation
and swarm intelligence.**

**Introduces nature-inspired
algorithms and their**

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**fundamentals, including: particle
swarm optimization, bat
algorithm, cuckoo search, firefly
algorithm, flower pollination
algorithm, differential evolution
and genetic algorithms as well as
multi-objective optimization**

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**algorithms and others Provides a
theoretical foundation and
analyses of algorithms, including:
statistical theory and Markov
chain theory on the convergence
and stability of algorithms,
dynamical system theory,**

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**benchmarking of optimization, no-
free-lunch theorems, and a
generalized mathematical
framework Includes a diversity of
case studies of real-world
applications: feature selection,
clustering and classification,**

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**tuning of restricted Boltzmann
machines, travelling salesman
problem, classification of white
blood cells, music generation by
artificial intelligence, swarm
robots, neural networks,
engineering designs and others**

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**This volume of Advances in
Intelligent Systems and
Computing contains accepted
papers presented at IBICA2014,
the 5th International Conference
on Innovations in Bio-inspired
Computing and Applications. The**

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**aim of IBICA 2014 was to provide
a platform for world research
leaders and practitioners, to
discuss the full spectrum of
current theoretical developments,
emerging technologies, and
innovative applications of Bio-**

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**inspired Computing. Bio-inspired
Computing remains to be one of
the most exciting research areas,
and it is continuously
demonstrating exceptional
strength in solving complex real
life problems. The main driving**

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**force of the conference was to
further explore the intriguing
potential of Bio-inspired
Computing. IBICA 2014 was held
in Ostrava, Czech Republic and
hosted by the VSB - Technical
University of Ostrava.**

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**Vehicular Ad-Hoc Networks
(VANETs) play a key role to
develop Intelligent Transportation
Systems (ITS) aiming to achieve
road safety and to guaranty needs
of drivers and passengers, in
addition to improve the**

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**transportation productivity. One
of the most important challenges
of this kind of networks is the data
routing between VANET nodes
which should be routed with high
level of Quality of Service (QoS) to
ensure receiving messages in the**

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time. Then, the driver can take the appropriate decision to improve the road safety. In the literature, there are several routing protocols for VANETs which are more or less reliable to reach safety requirements. In this book, we

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**start by describing all VANET
basic concepts such as VANET
definition, VANET versus Mobile
ad-Hoc Network (MANET),
architectures, routing definition
and steps, Quality of Service
(QoS) for VANET Routing,**

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**Metrics of evaluation,
Experimentation, and simulation
of VANETs, mobility patterns of
VANET etc. Moreover, different
routing protocols for routing in
VANETs will be described. We
propose two main categories to be**

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**presented: classical routing and
bio-inspired routing. Concerning
classical VANET, main principles
and all phases will be overviewed,
as well as, their two sub-categories
which are topological and
geographical protocols. After that,**

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**we propose a new category called
bio-inspired routing which is
inspired by natural phenomenon
such as Ant colony, Bee life,
Genetic operators etc. We present
also, some referential protocols as
example of each category. In this**

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**book, we focus on the idea of how
to apply bio-inspired principle
into VANET routing to improve
road safety, and to ensure QoS of
vehicular applications.**

Algorithms and Architectures

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**Bio-Inspired Computation and
Applications in Image Processing
Bioinspired Computation in
Combinatorial Optimization
Bio-Inspired Quality of Service
Aware Routing Protocols
Innovations in Bio-Inspired**

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Computing and Applications

Bio-Inspired Computation and
Applications in Image

Processing summarizes the
latest developments in bio-
inspired computation in image
processing, focusing on nature-

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inspired algorithms that are
linked with deep learning, such
as ant colony optimization,
particle swarm optimization,
and bat and firefly algorithms
that have recently emerged in
the field. In addition to

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documenting state-of-the-art developments, this book also discusses future research trends in bio-inspired computation, helping researchers establish new research avenues to pursue.

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Reviews the latest
developments in bio-inspired
computation in image
processing Focuses on the
introduction and analysis of the
key bio-inspired methods and
techniques Combines theory

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with real-world applications in
image processing Helps solve
complex problems in image
and signal processing Contains
a diverse range of self-
contained case studies in real-
world applications

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This book features high-quality research papers presented at Third Doctoral Symposium on Computational Intelligence (DoSCI 2022), organized by Institute of Engineering and Technology (IET), AKTU,

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Lucknow, India, on March 5,
2022. This book discusses the
topics such as computational
intelligence, artificial
intelligence, deep learning,
evolutionary algorithms, swarm
intelligence, fuzzy sets and

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vague sets, rough set theoretic
approaches, quantum inspired
computational intelligence,
hybrid computational
intelligence, machine learning,
computer vision, soft
computing, distributed

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computing, parallel and grid
computing, cloud computing,
high performance computing,
biomedical computing, and
decision support and decision
making.

This volume gathers selected,

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peer-reviewed original
contributions presented at the
International Conference on
Computational Vision and Bio-
inspired Computing (ICCVBIC)
conference which was held in
Coimbatore, India, on

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November 29-30, 2018. The works included here offer a rich and diverse sampling of recent developments in the fields of Computational Vision, Fuzzy, Image Processing and Bio-inspired Computing. The topics

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covered include computer
vision; cryptography and digital

privacy; machine learning and
artificial neural networks;

genetic algorithms and

computational intelligence; the
Internet of Things; and

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biometric systems, to name
but a few. The applications
discussed range from security,
healthcare and epidemic
control to urban computing,
agriculture and robotics. In this
book, researchers, graduate

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students and professionals will find innovative solutions to real-world problems in industry and society as a whole, together with inspirations for further research.

This book reviews the state-of-

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the-art developments in nature-
inspired algorithms and their
applications in various
disciplines, ranging from
feature selection and
engineering design
optimization to scheduling and

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vehicle routing. It introduces
each algorithm and its
implementation with case
studies as well as extensive
literature reviews, and also
includes self-contained
chapters featuring theoretical

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Su Feng Ting To 2015
Paragraph

analyses, such as convergence
analysis and no-free-lunch
theorems so as to provide
insights into the current nature-
inspired optimization
algorithms. Topics include ant
colony optimization, the bat

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algorithm, B-spline curve fitting, cuckoo search, feature selection, economic load dispatch, the firefly algorithm, the flower pollination algorithm, knapsack problem, octonian and quaternion

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representations, particle
swarm optimization,
scheduling, wireless networks,
vehicle routing with time
windows, and maximally
different alternatives. This
timely book serves as a

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Practical guide and reference
resource for students,
researchers and professionals.

Distributed Computer and
Communication Networks
Proceedings of The Eighth
International Conference on Bio-

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2013

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11th EAI International
Conference, BICT 2019,
Pittsburgh, PA, USA, March
13-14, 2019, Proceedings

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Bio-inspired Information and
Communication Technologies
Selected works presented at
the ICCVBIC 2018, Coimbatore,
India

Innovative Security Solutions
for Information Technology and

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Communications

This book constitutes the thoroughly refereed post-conference proceedings of the 5th International ICST Conference on Bio-Inspired Models of Network, Information, and Computing Systems (BIONETICS 2010) which was held in Boston, USA, in December 2010. The 78

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revised full papers were carefully reviewed and selected from numerous submissions for inclusion in the proceedings. BIONETICS 2010 aimed to provide the understanding of the fundamental principles and design strategies in biological systems and leverage those understandings to build

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bio-inspired systems.

This book presents a systematic approach to analyze nature-inspired algorithms.

Beginning with an introduction to optimization methods and algorithms, this book moves on to provide a unified framework of mathematical analysis for convergence and stability. Specific nature-

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inspired algorithms include: swarm intelligence, ant colony optimization, particle swarm optimization, bee-inspired algorithms, bat algorithm, firefly algorithm, and cuckoo search.

Algorithms are analyzed from a wide spectrum of theories and frameworks to offer insight to the main characteristics

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of algorithms and understand how and why they work for solving optimization problems. In-depth mathematical analyses are carried out for different perspectives, including complexity theory, fixed point theory, dynamical systems, self-organization, Bayesian framework, Markov chain framework, filter theory,

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statistical learning, and statistical measures. Students and researchers in optimization, operations research, artificial intelligence, data mining, machine learning, computer science, and management sciences will see the pros and cons of a variety of algorithms through detailed examples and a

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comparison of algorithms.

Swarm Intelligence and bio-inspired computation have become increasingly popular in the last two decades. Bio-inspired algorithms such as ant colony algorithms, bat algorithms, bee algorithms, firefly algorithms, cuckoo search and particle swarm optimization

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have been applied in almost every area of science and engineering with a dramatic increase of number of relevant

publications. This book reviews the latest developments in swarm intelligence and bio-inspired computation from both the theory and application side, providing a complete resource that analyzes and

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discusses the latest and future trends in research directions. It can help new researchers to carry out timely research and inspire readers to develop new algorithms. With its impressive breadth and depth, this book will be useful for advanced undergraduate students, PhD students and lecturers in computer

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science, engineering and science as well as researchers and engineers. Focuses on the introduction and analysis of key algorithms Includes case studies for real-world applications Contains a balance of theory and applications, so readers who are interested in either algorithm or applications will all benefit from this

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timely book.

This book constitutes the refereed proceedings of the 21th International Conference on Distributed and Computer and Communication Networks, DCCN 2018, held in Moscow, Russia, in September 2018. The 50 full papers and the 9 short papers were carefully

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reviewed and selected from 168
submissions. The papers cover the
following topics: computer and
communication networks architecture
optimization; control in computer and
communication networks; performance
and QoS/QoE evaluation in wireless
networks; analytical modeling and

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simulation of next-generation
communications systems; queueing
theory and reliability theory applications
in computer networks; wireless 4G/5G
networks, cm- and mm-wave radio
technologies; RFID technology and its
application in intellectual transportation
networks; Internet of Things, wearables,

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and applications of distributed information systems; probabilistic and statistical models in information systems; mathematical modeling of high-tech systems; mathematical modeling and control problems; distributed and cloud computing systems, big data analytics. Optimization Techniques and

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Applications with Examples

14th International Conference, BIC-TA

2019, Zhengzhou, China, November

22-25, 2019, Revised Selected Papers,
Part I

5th International ICST Conference,

BIONETICS 2010, Boston

Advances in Bio-inspired Computing for

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Combinatorial Optimization Problems
Nature-Inspired Computation and
Swarm Intelligence

Bio-inspired Computing – Theories and
Applications

This book constitutes the thoroughly
refereed proceedings of the 11th
International Conference on Security for

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Information Technology and

Communications, SecITC 2018, held in
Bucharest, Romania, in November 2018.

The 35 revised full papers presented together
with 3 invited talks were carefully reviewed
and selected from 70 submissions. The
papers present advances in the theory,
design, implementation, analysis,

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verification, or evaluation of secure systems
and algorithms.

This book includes selected papers from the
4th International Conference on
Computational Vision and Bio Inspired
Computing (ICCVBIC 2020), held in
Coimbatore, India, from November 19 to
20, 2020. This proceedings book presents

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state-of-the-art research innovations in computational vision and bio-inspired techniques. The book reveals the theoretical and practical aspects of bio-inspired computing techniques, like machine learning, sensor-based models, evolutionary optimization and big data modeling and management that make use of effectual

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computing processes in the bio-inspired systems. As such it contributes to the novel research that focuses on developing bio-inspired computing solutions for various domains, such as human – computer interaction, image processing, sensor-based single processing, recommender systems and facial recognition, which play an

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indispensable part in smart agriculture,
smart city, biomedical and business
intelligence applications.

This Volume contains the papers presented during the 6th International Conference on Innovations in Bio-Inspired Computing and Applications IBICA 2015 which was held in Kochi, India during December 16-18, 2015.

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The 51 papers presented in this Volume were carefully reviewed and selected. The 6th International Conference IBICA 2015 has been organized to discuss the state-of-the-art as well as to address various issues in the growing research field of Bio-inspired Computing which is currently one of the most exciting research areas, and is

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continuously demonstrating exceptional strength in solving complex real life problems. The Volume will be a valuable reference to researchers, students and practitioners in the computational intelligence field..

This book constitutes the refereed conference proceedings of the 11th

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Technologies, held in Pittsburgh, PA, USA,
in March 2019. The 13 revised full papers
and 2 short papers were selected from 29
submissions. Past iterations of the
conference have attracted contributions in
Direct Bioinspiration (physical biological

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materials and systems used within technology) as well as Indirect Bioinspiration (biological principles, processes and mechanisms used within the design and application of technology). This year, the scope has expanded to include a third thrust: Foundational Bioinspiration (bioinspired aspects of game theory,

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evolution, information theory, and
philosophy of science).

Bio-Inspired Computing for Information
Retrieval Applications

Computational Vision and Bio-Inspired
Computing

Recent Developments in Biologically
Inspired Computing

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12th International Conference, BIC-TA
2017, Harbin, China, December 1–3, 2017,

Proceedings

Swarm Intelligence and Bio-Inspired
Computation

ICCVBIC 2020

***This volume of LNICST is a
collection of the papers of the***

Page 76/197

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***4th International Conference
on Bio-Inspired Models of
Network, Information, and
Computing Systems
(Bionetics). The event took
place in the medieval city of
Avignon, known also as the***

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***City of the Popes, during
December 9 to 11, 2009.***

***Bionetics main objective is to
bring b- inspired paradigms
into computer engineering
and networking, and to
enhance the fruitful***

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***interactions between these
fields and biology. The
program of the conference
indeed includes applications of
various paradigms that have
their origin in biology:
population dynamics,***

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branching processes, ant colony optimization. The proceedings include 19 papers covering a broad range of important issues in areas related to bio-inspired technologies. They correspond to pr-

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*entations at 6 technical
sessions. Four papers
correspond to an invited
session on the Epidemic-type
forwarding in DTNs (sparse
mobile ad-hoc wireless
networks) org- ized by Dr*

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**Francesco De Pellegrini, (Italy,
CREATE-NET). The following 9
papers (selected out of 15
submissions) correspond to
contributions to regular
sessions on Bio-inspired
security, Bio-Inspired**

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**Networking, Bioinspired
algorithms and software
systems. The remaining 6
papers (selected out of a total
of 9 submissions) are de-
dicated to work in progress. For
each paper, we have provided**

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***at least two independent
reviews, most of which were
offered by members of the
TPC.***

***The two-volume set, CCIS 681
and CCIS 682, constitutes the
proceedings of the 11th***

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**International Conference on
Bio-Inspired Computing:
Theories and Applications, BIC-
TA 2016, held in Xi'an, China,
in October 2016. The 115
revised full papers presented
were carefully reviewed and**

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***selected from 343
submissions. The papers of
Part I are organized in topical
sections on DNA Computing;
Membrane Computing; Neural
Computing; Machine Learning.
The papers of Part II are***

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***organized in topical sections
on Evolutionary Computing;
Multi-objective Optimization;
Pattern Recognition; Others.
Bio-inspired computation,
especially those based on
swarm intelligence, has***

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***become increasingly popular in
the last decade. Bio-Inspired
Computation in***

***Telecommunications reviews
the latest developments in bio-
inspired computation from
both theory and application as***

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***they relate to
telecommunications and image
processing, providing a
complete resource that
analyzes and discusses the
latest and future trends in
research directions. Written by***

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***recognized experts, this is a
must-have guide for
researchers,
telecommunication engineers,
computer scientists and PhD
students.***

This book is a practical guide

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***for business professionals to
develop and improve business
intelligence and collective
decision-making within their
organisation. It proposes a
progressive reconfiguration of
the traditional business***

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***operating system using a
nature-inspired framework
called swarm facilitation that
enables and facilitates
collective decision-making.
Organisations have followed
the same rigid formula of***

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***problem-solving and decision-
making for over 100 years. It
is dominated by centralised
governance and pyramid
decision-making. Such an
approach is no longer fit for
purpose in an environment of***

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**employee disengagement,
artificial intelligence
(AI)/superintelligence, and
Covid-19 fallout. By the end of
this book, readers will be able
to: • solve organisational
problems and challenges**

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*collectively using swarm
intelligence; • upgrade and
future-proof business
operating systems to reflect a
more collective decision-
making approach fit for the
new connected economy and*

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***Industry 4.0; • embrace
mindset quotients that
support people working in a
more networked, self-
organising, and collective
environment. The book is
important reading for leaders***

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***and managers who are focused
on building organisational
capital and engagement and
gaining value from the
emerging technology by
evolving their business
operating system into a digital***

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***ecosystem as part of an
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strategy. It will also appeal to
experts working in the field of
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book discusses wide variety of
industrial, engineering and
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nature/bio-inspired computing
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"Advances in Bio-inspired
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Problems" illustrates several
recent bio-inspired efficient
algorithms for solving NP-hard
problems. Theoretical bio-
inspired concepts and models, in

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particular for agents, ants and
virtual robots are described.

Large-scale optimization
problems, for example: the
Generalized Traveling Salesman
Problem and the Railway
Traveling Salesman Problem,

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are solved and their results are discussed. Some of the main concepts and models described in this book are: inner rule to guide ant search - a recent model in ant optimization, heterogeneous sensitive ants;

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virtual sensitive robots; ant-
based techniques for static and
dynamic routing problems;
stigmergic collaborative agents
and learning sensitive agents.
This monograph is useful for
researchers, students and all

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people interested in the recent
natural computing frameworks.
The reader is presumed to have
knowledge of combinatorial
optimization, graph theory,
algorithms and programming.
The book should furthermore

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allow readers to acquire ideas,
concepts and models to use and
develop new software for solving
complex real-life problems.

Recent Developments in
Biologically Inspired Computing
is necessary reading for

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undergraduate and graduate students, and researchers interested in knowing the most recent advances in problem solving techniques inspired by nature. This book covers the most relevant areas in

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computational intelligence,
including evolutionary
algorithms, artificial neural
networks, artificial immune
systems and swarm systems. It
also brings together novel and
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examples of applications are
provided so as to help
newcomers and mature
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November 2019. The 121 full
papers presented in both
volumes were selected from 197
submissions. The papers are
organized according to the
topical headings: evolutionary
computation and swarm

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intelligence; ?bioinformatics and
systems biology; complex
networks; DNA and molecular
computing; neural networks and
artificial intelligence.

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21st International Conference,

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flagship conferences on Bio-
Computing, bringing together
the world's leading
scientists from different
areas of Natural Computing.*

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*Since 2006, the conferences
have taken place at Wuhan
(2006), Zhengzhou (2007),
Adelaide (2008), Beijing
(2009), Liverpool & Changsha
(2010), Malaysia (2011) and
India (2012). Following the
successes of previous*

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*events, the 8th conference
is organized and hosted by
Anhui University of Science
and Technology in China.
This conference aims to
provide a high-level
international forum that
researchers with different*

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backgrounds and who are working in the related areas can use to present their latest results and exchange ideas. Additionally, the growing trend in Emergent Systems has resulted in the inclusion of two other

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closely related fields in the BIC-TA 2013 event, namely Complex Systems and Computational Neuroscience. These proceedings are intended for researchers in the fields of Membrane Computing, Evolutionary

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Molecular Computing,
Biological Computing, Swarm
Intelligence, Autonomy-
Oriented Computing, Cellular
and Molecular Automata,
Complex Systems, etc.*

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*Professor Zhixiang Yin is
the Dean of the School of
Science, Anhui University of
Science & Technology, China.
Professor Linqiang Pan is
the head of the research
group of Natural Computing
at Huazhong University of*

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*Science and Technology,
Wuhan, China. Professor*

*Xianwen Fang also works at
the Anhui University of
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optimization applications
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emerging areas spanning
optimization, data science,
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engineering, and computer
sciences Optimization
Techniques and Applications
with Examples introduces the
fundamentals of all the

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*commonly used techniques in
optimization that encompass
the broadness and diversity
of the methods (traditional
and new) and algorithms. The
author—a noted expert in the
field—covers a wide range of
topics including*

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optimization formulation,
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linear programming, convex
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the book discusses*

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clustering and
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computation, nature-inspired

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*algorithms and many other
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topics are explained in
detail with step-by-step
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method works. The book's
exercises test the acquired*

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potentially applied to real
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upper undergraduates and
graduates in a standard
course on optimization,
operations research and data
mining, Optimization
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*accessible guide to
understanding the
fundamentals of all the
commonly used techniques in
optimization.*

*Bioinspired computation
methods such as evolutionary
algorithms and ant colony*

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*optimization are being
applied successfully to
complex engineering problems
and to problems from
combinatorial optimization,
and with this comes the
requirement to more fully
understand the computational*

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*complexity of these search
heuristics. This is the
first textbook covering the
most important results
achieved in this area. The
authors study the
computational complexity of
bioinspired computation and*

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*show how runtime behavior
can be analyzed in a
rigorous way using some of
the best-known combinatorial
optimization problems --
minimum spanning trees,
shortest paths, maximum
matching, covering and*

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*scheduling problems. A
feature of the book is the
separate treatment of
single- and multiobjective
problems, the latter a
domain where the development
of the underlying theory
seems to be lagging*

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*practical successes. This
book will be very valuable
for teaching courses on
bioinspired computation and
combinatorial optimization.
Researchers will also
benefit as the presentation
of the theory covers the*

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*most important developments
in the field over the last
10 years. Finally, with a
focus on well-studied
combinatorial optimization
problems rather than toy
problems, the book will also
be very valuable for*

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*practitioners in this field.
This book constitutes the
thoroughly refereed post-
conference proceedings of
the 7th International
Conference on Bio-Inspired
Models of Network,
Information and Computing*

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*Systems (Bionetics 2012),
held in Lugano, Switzerland,
in December 2012. The 23
revised full papers
presented were carefully
reviewed and selected from
40 submissions. They cover
topics such as networking,*

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*robotics and neural
networks, molecular scale
and bioinformatics,
optimization and bio-
inspired modeling in various
fields.*

*Theory and Applications
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to Reinventing Organisations
11th International*

*Conference, SecITC 2018,
Bucharest, Romania, November
8-9, 2018, Revised Selected*

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Hoc Networks*

The growing presence of
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processing has caused
significant changes in data

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retrieval. With the ubiquity of these technologies, more effective and streamlined data processing techniques are available. Bio-Inspired Computing for Information Retrieval Applications is a key resource on the latest

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advances and research
regarding current techniques
that have evolved from
biologically-inspired
processes and its
application to a variety of
problems. Highlighting
multidisciplinary studies on

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data processing, swarm-based clustering, and evolutionary computation, this publication is an ideal reference source for researchers, academics, professionals, students, and practitioners.

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technologies, the Internet
of Things, cloud and edge
computing, and artificial
intelligence play a
significant role in the
computational vision
context. In recent years,
computational vision has

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contributed to enhancing the
methods of controlling the
operations in biological
systems, like ant colony
optimization, neural
networks, and immune
systems. Moreover, the
ability of computational

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vision to process a large
number of data streams by
implementing new computing
paradigms has been
demonstrated in numerous
studies incorporating
computational techniques in
the emerging bio-inspired

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models. The book reveals the theoretical and practical aspects of bio-inspired computing techniques, like machine learning, sensor-based models, evolutionary optimization, and big data modeling and management,

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that make use of effectual
computing processes in the
bio-inspired systems. As
such it contributes to the
novel research that focuses
on developing bio-inspired
computing solutions for
various domains, such as

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human-computer interaction,
image processing, sensor-
based single processing,
recommender systems, and
facial recognition, which
play an indispensable part
in smart agriculture, smart
city, biomedical and

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business intelligence
applications.

Bio-inspired computational
algorithms are always hot
research topics in
artificial intelligence
communities. Biology is a
bewildering source of

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inspiration for the design
of intelligent artifacts
that are capable of
efficient and autonomous
operation in unknown and
changing environments. It is
difficult to resist the
fascination of creating

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artifacts that display
elements of lifelike
intelligence, thus needing
techniques for control,
optimization, prediction,
security, design, and so on.
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Algorithms and Their

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real-world problems. The works presented in this book give insights into the creation of innovative improvements over algorithm performance, potential applications on various practical tasks, and

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combination of different
techniques. The book
provides a reference to
researchers, practitioners,
and students in both
artificial intelligence and
engineering communities,
forming a foundation for the

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development of the field.
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Computing, ICIC 2011, held
in Zhengzhou, China, in
August 2011. This volume
contains 93 revised full
papers, from a total of 281
presentations at the
conference - carefully
reviewed and selected from

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832 initial submissions. The
papers address all issues in
Advanced Intelligent
Computing, especially
Methodologies and
Applications, including
theories, methodologies, and
applications in science and

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technology. They include a range of techniques such as artificial intelligence, pattern recognition, evolutionary computing, informatics theories and applications, computational neuroscience and bioscience,

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In recent years, a lot of work has been done in an effort to incorporate Swarm Intelligence (SI) techniques in building an adaptive routing protocol for Mobile Ad Hoc Networks (MANETs). Since centralized approach for

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routing in MANETs generally lacks in scalability and fault-tolerance, SI techniques provide a natural solution through a distributed approach for the adaptive routing for MANETs. In SI techniques, the captivating features of insects or

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mammals are correlated with the real world problems to find solutions. Recently, several applications of bio-inspired and nature-inspired algorithms in telecommunications and computer networks have achieved

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remarkable success. The main
aims/objectives of this book,
"Mobile Ad Hoc Networks: Bio-
Inspired Quality of Service Aware
Routing Protocols", are twofold;
firstly it clearly distinguishes
between principles of traditional

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routing protocols and SI based
routing protocols, while explaining
in detail the analogy between
MANETs and SI principles.

Secondly, it presents the readers
with important Quality of Service
(QoS) parameters and explains

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how SI based routing protocols achieves QoS demands of the applications. This book also gives quantitative and qualitative analysis of some of the SI based routing protocols for MANETs. Seeking new methods to satisfy

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increasing communication
demands, researchers continue to
find inspiration from the complex
systems found in nature. From ant-
inspired allocation to a swarm
algorithm derived from
honeybees, Bio-Inspired

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Computing and Networking explains how the study of biological systems can significantly improve computing, networking, and robotics. Containing contributions from leading researchers from around the

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world, the book investigates the
fundamental aspects and
applications of bio-inspired
computing and networking.
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bio-inspired communication,
computing, networking, clustering,

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optimization, and robotics, the
book considers state-of-the-art
approaches, novel technologies,
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swarm among multiple tasks Self-
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cellular systems Dynamic
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Robot Gregor III The book explores

bio-inspired topology control and

reconfiguration methods, as well

as bio-inspired localization,

synchronization, and mobility

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approaches. Providing wide-
ranging coverage that includes
past approaches, current
challenges, and emerging
concepts such as the evolution
and self-healing of network
architectures and protocols, this

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comprehensive reference provides
you with the well-rounded
understanding you need to
continue the advancement of the
development, design, and
implementation of bio-inspired
computing and networking.

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Seeking new methods to satisfy increasing communication demands, researchers continue to find inspiration from the complex systems found in nature. From ant-inspired allocation to a swarm algorithm derived from

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honeybees, Bio-Inspired
Computing and Networking
explains how the study of
biological systems can significantly
improve computing, networki
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Mobile Ad Hoc Networks

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as evolution, cells, neural networks,
immune systems, swarm intelligence.

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on bio-inspired computing and its
various innovative applications in
information and communication
technologies. It presents 51 high-
quality papers from the 11th

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International Conference on
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10th World Congress on Information
and Communication Technologies
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premier conference, IBICA-WICT

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brings together researchers, engineers and practitioners whose work involves bio-inspired computing, computational intelligence and their applications in information security, real-world contexts, etc. Including contributions by authors from 25 countries, the book offers a valuable reference guide for

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all researchers, students and practitioners in the fields of Computer Science and Engineering.

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