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Algorithms provides a systematic

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introduction to all major nature-
inspired algorithms for optimization.
The book's unified approach,
balancing algorithm introduction,
theoretical background and
practical implementation,
complements extensive literature

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with well-chosen case studies to illustrate how these algorithms work. Topics include particle swarm optimization, ant and bee algorithms, simulated annealing, cuckoo search, firefly algorithm, bat algorithm, flower algorithm,

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harmony search, algorithm
analysis, constraint handling, hybrid
methods, parameter tuning and
control, as well as multi-objective
optimization. This book can serve
as an introductory book for
graduates, doctoral students and

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lecturers in computer science, engineering and natural sciences. It can also serve a source of inspiration for new applications. Researchers and engineers as well as experienced experts will also find it a handy reference. Discusses

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and summarizes the latest
developments in nature-inspired
algorithms with comprehensive,
timely literature Provides a
theoretical understanding as well as
practical implementation hints
Provides a step-by-step

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introduction to each algorithm
This volume comprises the select
proceedings of the annual
convention of the Computer Society
of India. Divided into 10 topical
volumes, the proceedings present
papers on state-of-the-art research,

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surveys, and succinct reviews. The volumes cover diverse topics ranging from communications networks to big data analytics, and from system architecture to cyber security. This volume focuses on Nature Inspired Computing. The

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contents of this book will be useful to researchers and students alike. This book focuses primarily on the nature-inspired approach for designing smart applications. It includes several implementation paradigms such as design and path

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planning of wireless network,
security mechanism and
implementation for dynamic as well
as static nodes, learning method of
cloud computing, data exploration
and management, data analysis
and optimization, decision taking in

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conflicting environment, etc. The book fundamentally highlights the recent research advancements in the field of engineering and science.

Nature-inspired computation and swarm intelligence have become

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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
algorithms and applications

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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 developments in algorithms, theory

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and applications of nature-inspired algorithms and swarm intelligence. It reviews and documents the new developments, focusing on nature-inspired algorithms and their theoretical analysis, as well as providing a guide to their

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Implementation. The book includes
case studies of diverse real-world
applications, balancing explanation
of the theory with practical
implementation. Nature-Inspired
Computation and Swarm
Intelligence: Algorithms, Theory

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and Applications is suitable for
researchers and graduate students
in computer science, engineering,
data science, and management
science, who want a
comprehensive review of
algorithms, theory and

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implementation within the fields of nature inspired computation and swarm intelligence. Introduces nature-inspired algorithms and their fundamentals, including: particle swarm optimization, bat algorithm, cuckoo search, firefly algorithm,

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flower pollination algorithm,
differential evolution and genetic
algorithms as well as multi-
objective optimization algorithms
and others Provides a theoretical
foundation and analyses of
algorithms, including: statistical

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theory and Markov chain theory on
the convergence and stability of
algorithms, dynamical system
theory, benchmarking of
optimization, no-free-lunch
theorems, and a generalized
mathematical framework Includes a

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diversity of case studies of real-
world applications: feature
selection, clustering and
classification, tuning of restricted
Boltzmann machines, travelling
salesman problem, classification of
white blood cells, music generation

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by artificial intelligence, swarm
robots, neural networks,
engineering designs and others
Nature-Inspired Optimization
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Advances in Nature-Inspired Cyber

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Nature-Inspired Computation in
Data Mining and Machine Learning

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This book discusses all the major nature-inspired algorithms with a focus on their application in the context of solving navigation and routing problems. It also reviews

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***the approximation methods
and recent nature-inspired
approaches for practical
navigation, and compares
these methods with
traditional algorithms to
validate the approach for***

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***the case studies discussed.
Further, it examines the
design of alternative
solutions using nature-
inspired techniques, and
explores the challenges of
navigation and routing***

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**problems and nature-
inspired metaheuristic
approaches.**
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**The book presents recent
advances in nature-inspired
computing, giving a special
emphasis to control**

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***systems applications. It
reviews different
techniques used for
simulating physical,
chemical, biological or
social phenomena at the
purpose of designing***

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***robust, predictive and
adaptive control strategies.
The book is a collection of
several contributions,
covering either more
general approaches in
control systems, or***

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***methodologies for control
tuning and adaptive
controllers, as well as
exciting applications of
nature-inspired techniques
in robotics. On one side,
the book is expected to***

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***motivate readers with a
background in conventional
control systems to try out
these powerful techniques
inspired by nature. On the
other side, the book
provides advanced readers***

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***with a deeper
understanding of the field
and a broad spectrum of
different methods and
techniques. All in all, the
book is an outstanding,
practice-oriented reference***

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***guide to nature-inspired
computing addressing
graduate students,
researchers and
practitioners in the field of
control engineering.
The book provides readers***

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***with a snapshot of the
state of the art in the field
of nature-inspired
computing and its
application in optimization.
The approach is mainly
practice-oriented: each bio-***

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Applications In Comput
Since

***inspired technique or
algorithm is introduced
together with one of its
possible applications.
Applications cover a wide
range of real-world
optimization problems:***

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***from feature selection and
image enhancement to
scheduling and dynamic
resource management,
from wireless sensor
networks and wiring
network diagnosis to sports***

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***training planning and gene
expression, from topology
control and morphological
filters to nutritional meal
design and antenna array
design. There are a few
theoretical chapters***

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***comparing different
existing techniques,
exploring the advantages
of nature-inspired
computing over other
methods, and investigating
the mixing time of genetic***

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***algorithms. The book also
introduces a wide range of
algorithms, including the
ant colony optimization, the
bat algorithm, genetic
algorithms, the collision-
based optimization***

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***algorithm, the flower
pollination algorithm, multi-
agent systems and particle
swarm optimization. This
timely book is intended as
a practice-oriented
reference guide for***

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**students, researchers and
professionals.**
**Soft computing and nature-
inspired computing both
play a significant role in
developing a better
understanding to machine**

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***learning. When studied
together, they can offer
new perspectives on the
learning process of
machines. The Handbook of
Research on Soft
Computing and Nature-***

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***Inspired Algorithms is an
essential source for the
latest scholarly research on
applications of nature-
inspired computing and
soft computational
systems. Featuring***

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***comprehensive coverage on
a range of topics and
perspectives such as swarm
intelligence, speech
recognition, and
electromagnetic problem
solving, this publication is***

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***ideally designed for
students, researchers,
scholars, professionals, and
practitioners seeking
current research on the
advanced workings of
intelligence in computing***

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systems.
4th International
Workshop, BrainComp
2019, Cetraro, Italy, July
15-19, 2019, Revised
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**Techniques for Solving
Biomedical Engineering
Problems
Applied Nature-Inspired
Computing: Algorithms and
Case Studies
Frontier Applications of**

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***Nature Inspired
Computation
Brain and Nature-Inspired
Learning, Computation and
Recognition
Recent Developments in
Biologically Inspired***

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This book follows on from Natural
Computing in Computational
Finance Volumes I, II and III. As in
the previous volumes of this series,
the book consists of a series of
chapters each of which was selected

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following a rigorous, peer-reviewed, selection process. The chapters illustrate the application of a range of cutting-edge natural computing and agent-based methodologies in computational finance and economics. The applications

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explored include option model
calibration, financial trend reversal
detection, enhanced indexation,
algorithmic trading, corporate payout
determination and agent-based
modeling of liquidity costs, and trade
strategy adaptation. While

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describing cutting edge applications,
the chapters are written so that they
are accessible to a wide audience.
Hence, they should be of interest to
academics, students and
practitioners in the fields of
computational finance and

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economics. which was selected following a rigorous, peer-reviewed, selection process. The chapters illustrate the application of a range of cutting-edge natural computing and agent-based methodologies in computational finance and

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economics. The applications explored include option model calibration, financial trend reversal detection, enhanced indexation, algorithmic trading, corporate payout determination and agent-based modeling of liquidity costs, and trade

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strategy adaptation. While describing cutting edge applications, the chapters are written so that they are accessible to a wide audience. Hence, they should be of interest to academics, students and practitioners in the fields of

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computational finance and
economics. The applications
explored include option model
calibration, financial trend reversal
detection, enhanced indexation,
algorithmic trading, corporate payout
determination and agent-based

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modeling of liquidity costs, and trade strategy adaptation. While describing cutting edge applications, the chapters are written so that they are accessible to a wide audience. Hence, they should be of interest to academics, students and

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practitioners in the fields of
computational finance and
economics. written so that they are
accessible to a wide audience.
Hence, they should be of interest to
academics, students and
practitioners in the fields of

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computational finance and
economics.

This book provides a handbook of
algorithmic recipes from the fields of
Metaheuristics, Biologically Inspired
Computation and Computational
Intelligence that have been

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described in a complete, consistent, and centralized manner. These standardized descriptions were carefully designed to be accessible, usable, and understandable. Most of the algorithms described in this book were originally inspired by biological

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and natural systems, such as the adaptive capabilities of genetic evolution and the acquired immune system, and the foraging behaviors of birds, bees, ants and bacteria. An encyclopedic algorithm reference, this book is intended for research

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scientists, engineers, students, and interested amateurs. Each algorithm description provides a working code example in the Ruby Programming Language.

The observation of nature has been the inspiration for many materials,

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laws, and theories, as well as
computational methods. Nature-
Inspired computing Design,
Development, and Applications
covers all the main areas of natural
computing, from methods to
computationally synthesized natural

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phenomena, to computing paradigms based on natural materials. This volume is comprised of ideas and research from nature to develop computational systems or materials to perform computation. Researchers, academic educators,

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Recent Developments In Biologically
Inspired Computing is necessary
reading for undergraduate and

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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 computational intelligence, including evolutionary algorithms,

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artificial neural networks, artificial immune systems and swarm systems. It also brings together novel and philosophical trends in the exciting fields of artificial life and robotics. This book has the advantage of covering a large

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number of computational approaches, presenting the state-of-the-art before entering into the details of specific extensions and new developments. Pseudocodes, flow charts and examples of applications are provided so as to

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Science A Look at Optimization Techniques
The Coming Age of Bio-inspired

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Concepts, Methodologies, Tools,
and Applications
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Tenth On Metaheuristics Part II
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This volume constitutes selected
papers presented during the 8th
International Conference on
Metaheuristics and Nature Inspired
Computing, META 2021, held in
Marrakech, Morocco, in October 201.
Due to the COVID-19 pandemic the

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conference was partially held online.
The 16 papers were thoroughly
reviewed and selected from the 53
submissions. They are organized in
the topical sections on combinatorial
optimization; continuous optimization;
optimization and machine learning;
applications.

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This book contains research contributions from leading global scholars in nature-inspired computing. It includes comprehensive coverage of each respective topic, while also highlighting recent and future trends. The contributions provides readers with a snapshot of the state of the art

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in the field of nature-inspired computing and its application. This book has focus on the current researches while highlighting the empirical results along with theoretical concepts to provide a comprehensive reference for students, researchers, scholars, professionals and

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Artificial Intelligence, Nature-Inspired
Algorithms and Soft Computing. 2014

As technology continues to become
more sophisticated, mimicking natural
processes and phenomena also
becomes more of a reality. Continued
research in the field of natural

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computing enables an understanding of the world around us, in addition to opportunities for man-made computing to mirror the natural processes and systems that have existed for centuries. Nature-Inspired Computing: Concepts, Methodologies, Tools, and Applications takes an interdisciplinary

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approach to the topic of natural computing, including emerging technologies being developed for the purpose of simulating natural phenomena, applications across industries, and the future outlook of biologically and nature-inspired technologies. Emphasizing critical

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research in a comprehensive multi-volume set, this publication is designed for use by IT professionals, researchers, and graduate students studying intelligent computing. This book explores a range of important theoretical and practical issues in the field of computational

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network application tools, while also presenting the latest advances and innovations using intelligent technology approaches. The main focus is on detecting and diagnosing complex application performance problems so that an optimal and expected level of system service can

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be attained and maintained. The book discusses challenging issues like enhancing system efficiency, performance, and assurance management, and blends the concept of system modeling and optimization techniques with soft computing, neural network, and sensor network

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approaches. In addition, it presents certain metrics and measurements that can be translated into business value. These metrics and measurements can also help to establish an empirical performance baseline for various applications, which can be used to identify changes

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in system performance. By presenting various intelligent technologies, the book provides readers with compact but insightful information on several broad and rapidly growing areas in the computation network application domain. The book 's twenty-two chapters examine and address current

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and future research topics in areas like
neural networks, soft computing,
nature-inspired computing, fuzzy logic
and evolutionary computation,
machine learning, smart security, and
wireless networking, and cover a wide
range of applications from pattern
recognition and system modeling, to

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intelligent control problems and
biomedical applications. The book was
written to serve a broad readership,
including engineers, computer
scientists, management professionals,
and mathematicians interested in
studying tools and techniques for
computational intelligence and

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applications for performance analysis. Featuring theoretical concepts and best practices in computational network applications, it will also be helpful for researchers, graduate and undergraduate students with an interest in the fields of soft computing, neural networks, machine learning,

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8th International Conference, META
2021, Marrakech, Morocco, October
27-30, 2021, Proceedings

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Handbook of Research on Soft
Computing and Nature-Inspired
Algorithms
Clever Algorithms
Swarm Intelligence and bio-
inspired computation have
become increasing popular in

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the last two decades. Bio-
inspired algorithms such as
ant colony algorithms, bat
algorithms, bee algorithms,
firefly algorithms, cuckoo
search and particle swarm
optimization have been
applied in almost every area

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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

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both the theory and
application side, providing
a complete resource that
analyzes and discusses the
latest and future trends in
research directions. It can
help new researchers to
carry out timely research

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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 science,

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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

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applications, so readers who
are interested in either
algorithm or applications
will all benefit from this
timely book.

This book discusses the
current research and
concepts in data science and

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how these can be addressed
using different nature-
inspired optimization
techniques. Focusing on
various data science
problems, including
classification, clustering,
forecasting, and deep

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Techniques to find solutions
to these problems in domains
such as disease analysis and
health care, object
recognition, vehicular ad-

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hoc networking, high-
dimensional data analysis,
gene expression analysis,
microgrids, and deep
learning. As such it
provides insights and
inspiration for researchers
to wanting to employ nature-

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inspired optimization
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techniques in their own
endeavors. Artificial Intelligence Mica2014

This book presents a cutting-
edge research procedure in
the Nature-Inspired
Computing (NIC) domain and
its connections with

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computational intelligence
areas in real-world
engineering applications. It
introduces readers to a
broad range of algorithms,
such as genetic algorithms,
particle swarm optimization,
the firefly algorithm,

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flower pollination
algorithm, collision-based
optimization algorithm, bat
algorithm, ant colony
optimization, and multi-
agent systems. In turn, it
provides an overview of meta-
heuristic algorithms,

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comparing the advantages and
disadvantages of each.
Moreover, the book provides
a brief outline of the
integration of nature-
inspired computing
techniques and various
computational intelligence

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paradigms, and highlights
nature-inspired computing
techniques in a range of
applications, including:
evolutionary robotics,
sports training planning,
assessment of water
distribution systems, flood

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simulation and forecasting,
traffic control, gene
expression analysis, antenna
array design, and
scheduling/dynamic resource
management.

The two-volume set LNAI 8856
and LNAI 8857 constitutes

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the proceedings of the 13th
Mexican International
Conference on Artificial
Intelligence, MICAI 2014,
held in Tuxtla, Mexico, in
November 2014. The total of
87 papers plus 1 invited
talk presented in these

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proceedings were carefully
reviewed and selected from
348 submissions. The first
volume deals with advances
in human-inspired computing
and its applications. It
contains 44 papers
structured into seven

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sections: natural language
processing, natural language
processing applications,
opinion mining, sentiment
analysis, and social network
applications, computer
vision, image processing,
logic, reasoning, and multi-

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agent systems, and intelligent tutoring systems. The second volume deals with advances in nature-inspired computation and machine learning and contains also 44 papers structured into eight

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sections: genetic and
evolutionary algorithms,
neural networks, machine
learning, machine learning
applications to audio and
text, data mining, fuzzy
logic, robotics, planning,
and scheduling, and

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biomedical applications.
Brain-Inspired Computing
Theory and Applications
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Tuxtla Gutiérrez, Mexico,
November 16-22, 2014.

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Proceedings, Part I
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Nature-inspired Programming
Recipes
Artificial Intelligence Mica2014
Computing Nature
Tuxtla Gutierrez, Mexico
Turing Centenary Perspective
Lecture Notes in Computer
*Computer scientist Moshe Sipper
takes readers on a thrilling journey to
the terra nova of computing to*

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provide a compelling look at cutting-edge computers, robots, and machines now and in the decades ahead.

This book is about nature considered as the totality of physical existence, the universe, and our present day attempts to understand it. If we see

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*the universe as a network of
networks of computational processes
at many different levels of
organization, what can we learn
about physics, biology, cognition,
social systems, and ecology
expressed through interacting
networks of elementary particles,*

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atoms, molecules, cells, (and
especially neurons when it comes to
understanding of cognition and
intelligence), organs, organisms and
their ecologies? Regarding our
computational models of natural
phenomena Feynman famously
wondered: "Why should it take an

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infinite amount of logic to figure out what one tiny piece of space/time is going to do?" Phenomena themselves occur so quickly and automatically in nature. Can we learn how to harness nature's computational power as we harness its energy and materials? This volume includes a selection of

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Natural Computing/Unconventional
Computing and Its Philosophical
Significance, organized during the
AISB/IACAP World Congress 2012,
held in Birmingham, UK, on July 2-6,
on the occasion of the centenary of
Alan Turing's birth. In this book,

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*leading researchers investigated
questions of computing nature by
exploring various facets of
computation as we find it in nature:
relationships between different levels
of computation, cognition with
learning and intelligence,
mathematical background,*

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*relationships to classical Turing
computation and Turing's ideas about
computing nature - unorganized
machines and morphogenesis. It
addresses questions of information,
representation and computation,
interaction as communication,
concurrency and agent models; in*

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*short this book presents natural
computing and unconventional
computing as extension of the idea of
computation as symbol manipulation.
This book reviews the latest
developments in nature-inspired
computation, with a focus on the
cross-disciplinary applications in data*

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mining and machine learning. Data mining, machine learning and nature-inspired computation are current hot research topics due to their importance in both theory and practical applications. Adopting an application-focused approach, each chapter introduces a specific topic,

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with detailed descriptions of relevant algorithms, extensive literature reviews and implementation details. Covering topics such as nature-inspired algorithms, swarm intelligence, classification, clustering, feature selection, cybersecurity, learning algorithms over cloud,

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*extreme learning machines, object
categorization, particle swarm
optimization, flower pollination and
firefly algorithms, and neural
networks, it also presents case
studies and applications, including
classifications of crisis-related tweets,
extraction of named entities in the*

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Tamil language, performance-based
prediction of diseases, and healthcare

services. This book is both a valuable

a reference resource and a practical

guide for students, researchers and

professionals in computer science,

data and management sciences,

artificial intelligence and machine

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learning.

*Bio-Inspired Computation and
Applications in Image Processing*
summarizes the latest developments
in bio-inspired computation in image
processing, focusing on nature-
inspired algorithms that are linked
with deep learning, such as ant

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colony optimization, particle swarm optimization, and bat and firefly algorithms that have recently emerged in the field. In addition to documenting state-of-the-art developments, this book also discusses future research trends in bio-inspired computation, helping

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*researchers establish new research
avenues to pursue. 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 with real-world applications in*

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Proceedings of the 7th World
Congress on Nature and Biologically
Inspired Computing (NaBIC2015) in

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Pietermaritzburg, South Africa, held
International Conference On
December 01-03, 2015
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Natural Computing in Computational
Finance
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Algorithms, Methods and Applications
Science
Nature-Inspired Computation and
Swarm Intelligence

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Algorithms, Theory and Applications
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Computational Intelligence
Systems and Applications
This timely review book
summarizes the state-of-the-
art developments in nature-
inspired optimization computer
algorithms and their
applications in engineering.

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*Algorithms and topics include
the overview and history of
nature-inspired algorithms,
discrete firefly algorithm,
discrete cuckoo search, plant
propagation algorithm,
parameter-free bat algorithm,*

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*gravitational search,
biogeography-based algorithm,
differential evolution, particle
swarm optimization and others.
Applications include vehicle
routing, swarming robots,
discrete and combinatorial*

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*optimization, clustering of
wireless sensor networks, cell
formation, economic load
dispatch, metamodeling,
surrogated-assisted
cooperative co-evolution, data
fitting and reverse engineering*

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*as well as other case studies in
engineering. This book will be
an ideal reference for
researchers, lecturers,
graduates and engineers who
are interested in nature-
inspired computation, artificial*

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*intelligence and computational
intelligence. It can also serve
as a reference for relevant
courses in computer science,
artificial intelligence and
machine learning, natural
computation, engineering*

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*optimization and data mining.
This book presents nature
inspired computing
applications for the wireless
sensor network (WSN).
Although the use of WSN is
increasing rapidly, it has a*

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*number of limitations in the
context of battery issue,
distraction, low communication
speed, and security. This
means there is a need for
innovative intelligent
algorithms to address these*

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issues. The book is divided into three sections and also includes an introductory chapter providing an overview of WSN and its various applications and algorithms as well as the associated

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challenges. Section 1 describes bio-inspired optimization algorithms, such as genetic algorithms (GA), artificial neural networks (ANN) and artificial immune systems (AIS) in the contexts of fault analysis

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and diagnosis, and traffic
management. Section 2
highlights swarm optimization
techniques, such as African
buffalo optimization (ABO),
particle swarm optimization
(PSO), and modified swarm

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*intelligence technique for
solving the problems of
routing, network parameters
optimization, and energy
estimation. Lastly, Section 3
explores multi-objective
optimization techniques using*

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*GA, PSO, ANN,
teaching-learning-based
optimization (TLBO), and
combinations of the algorithms
presented. As such, the book
provides efficient and optimal
solutions for WSN problems*

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based on nature-inspired algorithms.

Gain insight into the world of nature-inspired optimization techniques and algorithms.

This book will prepare you to apply different nature-inspired

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*optimization techniques to
solve problems using Java.
You'll start with an introduction
to the hidden algorithms that
nature uses and find the
approximate solutions to
optimization problems. You'll*

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*then see how living creatures
such as fish and birds are able
to perform computation to
solve specific optimization
tasks. This book also covers
various nature-inspired
algorithms by reviewing code*

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*examples for each one
followed by crisp and clear
explanations of the algorithm
using Java code. You'll examine
the use of each algorithm in
specific industry scenarios
such as fleet scheduling in*

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September 13-17, 2014
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*supply chain management, and
shop floor management in
industrial and manufacturing
applications. Nature-Inspired
Optimization Algorithms with
Java is your pathway to
understanding a variety of*

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*optimization problems that
exist in various industries and
domains and it will develop an
ability to apply nature-inspired
algorithms to find approximate
solutions to them. What You'll
Learn Study optimization and*

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*its problems Examine nature-
inspired algorithms such as
Particle Swarm, Gray wolf, etc.
See how nature-inspired
algorithms are being used to
solve optimization problems
Use Java for solving the*

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*different nature-inspired
algorithms with real-world
examples Who This Book Is For
Software developers/architects
who are looking to hone their
skills in area of problem solving
related to optimization with*

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Java.

*World Congress on Nature and
Biologically Inspired Computing
(NaBIC) is organized to discuss
the state-of-the-art as well as
to address various issues with
respect to Nurturing Intelligent*

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Computing Towards
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Advancement of Machine
Artificial Intelligence. Micai2014
contains the papers presented
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in the Seventh World Congress
Incorporating the Computer
(NaBIC'15) held in
Science
Pietermaritzburg, South Africa

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*during December 01-03, 2015.
The 39 papers presented in
this Volume were carefully
reviewed and selected. The
Volume would be a valuable
reference to researchers,
students and practitioners in*

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*the computational intelligence
field.*
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Advances in Nature and
Biologically Inspired Computing
Computational Network
Application Tools for
Performance Management

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*Human-Inspired Computing
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Nature Inspired Computing for
Wireless Sensor Networks
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Science
*Nature-Inspired Computing for
Control Systems*
Nature-Inspired Computation in

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***This open access book
constitutes revised selected
papers from the 4th
International Workshop on
Brain-Inspired Computing,
BrainComp 2019, held in
Cetraro, Italy, in July 2019.***

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***The 11 papers presented in
this volume were carefully
reviewed and selected for
inclusion in this book. They
deal with research on brain
atlasing, multi-scale models
and simulation, HPC and data
infra-structures for***

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***neuroscience as well as
artificial and natural neural
architectures.***
***"This book provides
applications of nature
inspired computing for
economic theory and practice,
finance and stock-market,***

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***manufacturing systems,
marketing, e-commerce, e-
auctions, multi-agent systems
and bottom-up simulations for
social sciences and operations
management"--Provided by
publisher.***

Human-Inspired Computing

Page 157/202

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**and its Applications 13th
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Proceedings, Part I Springer
This book presents a**

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***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***

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***convergence and stability.
Specific nature-inspired
algorithms include: swarm
intelligence, ant colony
optimization, particle swarm
optimization, bee-inspired
algorithms, bat algorithm,
firefly algorithm, and cuckoo***

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***search. Algorithms are
analyzed from a wide
spectrum of theories and
frameworks to offer insight to
the main characteristics of
algorithms and understand
how and why they work for
solving optimization***

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***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***

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**framework, filter theory,
statistical learning, and
statistical measures. Students
and researchers in
optimization, operations
research, artificial
intelligence, data mining,
machine learning, computer**

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***science, and management
sciences will see the pros and
cons of a variety of algorithms
through detailed examples
and a comparison of
algorithms.***

***Nature Inspired Computing
Nature-Inspired Computing***

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Concepts, Methodologies,
Tools, and Applications
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Brain and Nature-Inspired
Learning, Computation and
Recognition presents a

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**systematic analysis of neural
networks, natural computing,
machine learning and
compression, algorithms and
applications inspired by the
brain and biological mechanisms
found in nature. Sections cover**

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new developments and main applications, algorithms and simulations. Developments in brain and nature-inspired learning have promoted interest in image processing, clustering problems, change detection,

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**control theory and other
disciplines. The book discusses
the main problems and
applications pertaining to bio-
inspired computation and
recognition, introducing
algorithm implementation, model**

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**simulation, and practical
application of parameter setting.
Readers will find solutions to
problems in computation and
recognition, particularly neural
networks, natural computing,
machine learning and**

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compressed sensing. This volume offers a comprehensive and well-structured introduction to brain and nature-inspired learning, computation, and recognition. Presents an invaluable systematic

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**introduction to brain and nature-
inspired learning, computation
and recognition Describes the
biological mechanisms,
mathematical analyses, and
scientific principles behind brain
and nature-inspired learning,**

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**calculation and recognition
Systematically analyzes neural
networks, natural computing,
machine learning and
compression, algorithms and
applications inspired by the
brain and biological mechanisms**

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This book addresses the frontier

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**advances in the theory and
application of nature-inspired
optimization techniques,
including solving the quadratic
assignment problem, prediction
in nature-inspired dynamic
optimization, the lion algorithm**

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**and its applications, optimizing
the operation scheduling of
microgrids, PID controllers for
two-legged robots, optimizing
crane operating times, planning
electrical energy distribution
systems, automatic design and**

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evaluation of classification pipelines, and optimizing wind-energy power generation plants. The book also presents a variety of nature-inspired methods and illustrates methods of adapting these to said applications.

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Nature-inspired computation, developed by mimicking natural phenomena, makes a significant contribution toward the solution of non-convex optimization problems that normal mathematical optimizers fail to

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solve. As such, a wide range of nature-inspired computing approaches has been used in multidisciplinary engineering applications. Written by researchers and developers from a variety of fields, this book

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**presents the latest findings,
novel techniques and pioneering
applications.**

**Technological tools and
computational techniques have
enhanced the healthcare
industry. These advancements**

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**have led to significant progress
and novel opportunities for
biomedical engineering. Nature-
Inspired Intelligent Techniques
for Solving Biomedical
Engineering Problems is a
pivotal reference source for**

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**emerging scholarly research on
trends and techniques in the
utilization of nature-inspired
approaches in biomedical
engineering. Featuring extensive
coverage on relevant areas such
as artificial intelligence, clinical**

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**decision support systems, and
swarm intelligence, this
publication is an ideal resource
for medical practitioners,
professionals, students,
engineers, and researchers
interested in the latest**

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**developments in biomedical
technologies.
Nature-Inspired Computing:
Physics and Chemistry-Based
Algorithms provides a
comprehensive introduction to
the methodologies and**

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algorithms in nature-inspired computing, with an emphasis on applications to real-life engineering problems. The research interest for Nature-inspired Computing has grown considerably exploring different

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**phenomena observed in nature
and basic principles of physics,
chemistry, and biology. The
discipline has reached a mature
stage and the field has been well-
established. This endeavour is
another attempt at investigation**

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**into various computational
schemes inspired from nature,
which are presented in this book
with the development of a
suitable framework and
industrial applications. Designed
for senior undergraduates,**

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**postgraduates, research
students, and professionals, the
book is written at a
comprehensible level for
students who have some basic
knowledge of calculus and
differential equations, and some**

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**exposure to optimization theory.
Due to the focus on search and
optimization, the book is also
appropriate for electrical,
control, civil, industrial and
manufacturing engineering,
business, and economics**

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**students, as well as those in
computer and information
sciences. With the mathematical
and programming references
and applications in each chapter,
the book is self-contained, and
can also serve as a reference for**

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Inspired Computing
Applications of Nature-Inspired
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Science, Nature, and Computer
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The purpose of designing this book is to portray certain practical applications of nature-inspired computation in machine learning for the better understanding of the world

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around us. The focus is to portray and present recent developments in the areas where nature-inspired algorithms are specifically designed and applied to solve complex real-world problems in data analytics and pattern recognition, by means of domain-specific solutions. Various

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nature-inspired algorithms and their multidisciplinary applications (in mechanical engineering, electrical engineering, machine learning, image processing, data mining and wireless network domains are detailed, which will make this book a handy reference guide.

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Artificial Intelligence Mimicking
the structure of complex systems in
nature can provide new ideas on how
to organize mechanical and personal
systems. The Handbook of Research
on Modeling, Analysis, and

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Application of Nature-Inspired Metaheuristic Algorithms is an essential scholarly resource on current algorithms that have been inspired by the natural world. Featuring coverage on diverse topics such as cellular automata, simulated annealing, genetic programming, and

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differential evolution, this reference
publication is ideal for scientists,
biological engineers, academics,
students, and researchers that are
interested in discovering what models
from nature influence the current
technology-centric world.

Renewable energy is crucial to

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preserve the environment. This energy involves various systems that must be optimized and assessed to provide better performance; however, the design and development of renewable energy systems remains a challenge. It is crucial to implement the latest innovative research in the

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systems and provides new solutions to the renewable energy domain. Covering topics such as microgrids, wind power, and artificial neural networks, it is ideal for engineers, industry professionals, researchers, academicians, practitioners, teachers, and students.

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