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Computation And

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mputation

And

Machine

Intelligence

Learning

13th

Mexican Int

Computer Science

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**International
Conference
On Artificial
Intelligence
Mica2014
Tuxtla Gutii
1 2 Rrez
Part Ii**

Page 2/250

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**Lecture
Notes In
Computation And
Machine Learning
Science**

This book
presents a
systematic
approach to
analyze nature-

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Inspired

inspired

algorithms.

Beginning with

an

introduction

to

optimization

methods and

algorithms,

this book

moves on to

provide a

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unified
framework of
mathematical
analysis for
convergence
and stability.
Specific natur
e-inspired
algorithms
include: swarm
intelligence,
ant colony

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Machine Learning
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optimization,
particle swarm
optimization,
bee-inspired
algorithms,
bat algorithm,
firefly
algorithm, and
cuckoo search.
Algorithms are
analyzed from
a wide

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spectrum of
theories and
frameworks to
offer insight
to the main ch
aracteristics
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

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systems, self-
organization,
Bayesian
framework,
Markov chain
framework,
filter theory,
statistical
learning, and
statistical
measures.
Students and

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Inspired
researchers in
Computation And
optimization,
Machine Learning
operations
13th Mexican
research,
International
artificial
Conference On
intelligence,
Artificial
data mining,
Intelligence
machine
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learning,
Gutii 1 2 Krez Part
computer
ii Lecture Notes In
science, and
Computer Science
management

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sciences will
see the pros
and cons of a
variety of
algorithms
through
detailed
examples and a
comparison of
algorithms.
This book
provides a

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Artificial
Intelligence
Computation
and
Computational
Intelligence
that have been

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Inspired
described in a
complete,
consistent,
and
centralized
manner. These
standardized
descriptions
were carefully
designed to be
accessible,
usable, and un

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derstandable.
Most of the
algorithms
described in
this book were
originally
inspired by
biological and
natural
systems, such
as the
adaptive

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capabilities
of genetic
evolution and
the acquired
immune system,
and the
foraging
behaviors of
birds, bees,
ants and
bacteria. An
encyclopedic

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algorithm
reference,
this book is
intended for
research
scientists,
engineers,
students, and
interested
amateurs. Each
algorithm
description

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Machine Learning
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International
Programming
Conference On
Language.
Artificial
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Computer Science

provides a
working code
example in the
Ruby
Programming
Language.

This timely
review book
summarizes the
state-of-the-
art
developments

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in nature-
Computation And
inspired
Machine Learning
optimization
13th Mexican
algorithms and
International
their
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applications
Artificial
in
Intelligence
engineering.

Algorithms and
Micai2014 Tuxtla
topics include
Gutierrez 1 2 Rrez Part
Lecture Notes In
the overview
Computer Science
and history of

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nature-
Computation And
inspired
Machine Learning
algorithms,
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discrete
International
firefly
Conference On
algorithm,
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discrete
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cuckoo search,
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plant
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propagation
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algorithm,
Computer Science
parameter-free

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bat algorithm,
gravitational
search, biogeo
graphy-based
algorithm,
differential
evolution,
particle swarm
optimization
and others.
Applications
include

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vehicle
Computation And
routing,
Machine Learning
swarming
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robots,
International
discrete and
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combinatorial
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optimization,
Intelligence
clustering of
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wireless
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sensor
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networks, cell
Computer Science
formation,

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economic load
dispatch,
metamodeling,
surrogated-
assisted
cooperative co-
evolution,
data fitting
and reverse
engineering as
well as other
case studies

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in

Computation And
engineering.

Machine Learning
This book will

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be an ideal

International
reference for

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researchers,

Artificial
lecturers,

Intelligence
graduates and

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engineers who

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are interested

ii Lecture Notes In
in nature-

Computer Science
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computational
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It can also
serve as a
reference for
relevant

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courses in
computer

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science,
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Machine Learning
intelligence
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and machine
International
learning,
Conference On
natural
Artificial
computation,
Intelligence
engineering
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optimization
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and data
II Lecture Notes In
mining.
Computer Science
This book

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discusses all
the major natu
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13th Mexican
algorithms
International
with a focus
Conference On
on their
Artificial
application in
Intelligence
the context of
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solving
Gutii 1 2 P rez Part
navigation and
ii Lecture Notes In
routing
Computer Science
problems. It

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also reviews
the
approximation
methods and
recent nature-
inspired
approaches for
practical
navigation,
and compares
these methods
with

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traditional
algorithms to
validate the
approach for
the case
studies
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using nature-
inspired
techniques,
and explores
the challenges
of navigation
and routing
problems and n
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approaches.
Nature

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Networks
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Nature-
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Engineering
Advances in
Nature and

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Computing in
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Renewable
Machine Learning
Energy Systems

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This volume
International
constitutes
Conference On
selected papers
Artificial
presented during
Intelligence
the 8th

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Conference on
Lecture Notes In
Metaheuristics
Computer Science
and Nature

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Computation And
Computing,
Machine Learning
META 2021, held
13th Mexican
in Marrakech,
International
Morocco, in
Conference On
October 201. Due
Artificial
to the COVID-19
Intelligence
pandemic the
Micai2014 Tuxtla
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online. The 16
Computer Science
papers were

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thoroughly
reviewed and
selected from the
53 submissions.

They are
organized in the
topical sections
on

?combinatorial
optimization;
continuous
optimization;

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optimization and
machine
learning;
applications.

This book follows
on from Natural
Computing in
Computational
Finance Volumes
I, II and III. As in
the previous
volumes of this

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series, the book consists of a series of chapters each of which was selected following a rigorous, peer-reviewed, selection process. The chapters

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illustrate the application of a range of cutting-edge natural computing and agent-based methodologies in computational finance and economics. The applications explored include

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option model
Computation And
calibration,
Machine Learning
financial trend
13th Mexican
reversal
International
detection,
Conference On
enhanced
Artificial
indexation,
Intelligence
algorithmic
Micai2014 Tuxtla
trading,
Gutii 12 Rrez Part
corporate payout
ii Lecture Notes In
determination
Computer Science
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

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Inspired

wide audience.

Hence, they

should be of

interest to

academics,

students and

practitioners in

the fields of

computational

finance and

economics,

which was

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reversal
detection,

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trading,

corporate payout

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and agent-based

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and trade

strategy

adaptation. While

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interest to
Computer Science
academics,

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students and
practitioners in
the fields of
computation and
Machine Learning

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Intelligence
explored include
option model
calibration,
financial trend
reversal

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detection,
enhanced
indexation,
algorithmic
trading,
corporate payout
determination
and agent-based
modeling of
liquidity costs,
and trade
strategy

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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

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academics,
students and
practitioners in
the fields of
computational
finance and
economics.

written so that
they are
accessible to a
wide audience.

Hence, they

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should be of
interest to
academics,
students and
practitioners in
the fields of
computational
finance and
economics.

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This book
explores a range
of important

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theoretical and
practical issues
in the field of
computational
network

application tools,
while also

presenting the
latest advances
and innovations
using intelligent
technology

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Inspired

approaches. The

main focus is on

detecting and

diagnosing

complex

application

performance

problems so that

an optimal and

expected level of

system service

can be attained

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Intelligence

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Inspired
and maintained.
The book
discusses
challenging
issues like
enhancing
system
efficiency,
performance, and
assurance
management, and
blends the

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concept of
system modeling
and optimization
techniques with
soft computing,
neural network,
and sensor
network
approaches. In
addition, it
presents certain
metrics and

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Inspired
measurements
that can be
translated into
business value.

These metrics
and
measurements
can also help to
establish an
empirical
performance
baseline for

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Inspired

various

applications,

which can be

used to identify

changes in

system

performance. By

presenting

various

intelligent

technologies, the

book provides

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Inspired
readers with
compact but
insightful
information on
several broad
and rapidly
growing areas in
the computation
network
application
domain. The
book's twenty-

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two chapters
examine and
address current
and future
research topics
in areas like

neural networks,
soft computing,

nature-inspired
computing, fuzzy

logic and

evolutionary

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computation,
machine learning,
smart security,
and wireless
networking, and
cover a wide
range of
applications from
pattern
recognition and
system modeling,
to intelligent

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control problems
and biomedical
applications. The
book was written
to serve a broad
readership,
including
engineers,
computer
scientists,
management
professionals,

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Inspired

and

mathematicians

interested in

studying tools

and techniques

for computational

intelligence and

applications for

performance

analysis.

Featuring

theoretical

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concepts and
best practices in
computational
network
applications, it
will also be
helpful for
researchers,
graduate and
undergraduate
students with an
interest in the

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fields of soft
Computation And
computing,
Machine Learning
neural networks,
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machine learning,
International
sensor networks,
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smart security,
Artificial
etc.

Intelligence
The digital age is
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ripe with
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emerging
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advances and
Computer Science
applications in

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technological
innovations.

Mimicking the
structure of
complex systems
in nature can

provide new
ideas on how to
organize

mechanical and
personal
systems. The

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Handbook of
Computation And
Research on
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Modeling,
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Analysis, and
International
Application of
Conference On
Nature-Inspired
Artificial
Metaheuristic
Intelligence
Algorithms is an
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essential
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scholarly
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resource on
Computer Science
current

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Inspired algorithms that have been inspired by the natural world.

Featuring coverage on diverse topics such as cellular automata, simulated annealing, genetic

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Inspired
programming,
and differential
evolution, this
reference

publication is
ideal for

scientists,
biological
engineers,
academics,
students, and
researchers that

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are interested in
discovering what
models from
nature influence
the current techn
ology-centric
world.

Swarm

Intelligence and

Bio-Inspired

Computation

Nature-Inspired

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Machine Learning
Solving
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Problems
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Swarm

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Applications
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**Algorithms
provides a
systematic
introduction to
all major natur
e-inspired
algorithms for
optimization.**

**The book's
unified
approach,
balancing**

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**algorithm
introduction,
theoretical**

13th Mexican

**background
and practical i
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complements**

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**extensive
literature with**

ii Lecture Notes In

**well-chosen
case studies**

Computer Science

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Inspired

to illustrate

how these

algorithms

work. Topics

include

particle swarm

optimization,

ant and bee

algorithms,

simulated

annealing,

cuckoo search,

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firefly

algorithm, bat

algorithm,

flower

algorithm,

harmony

search,

algorithm

analysis,

constraint

handling,

hybrid

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Computation And
Machine Learning

**methods,
parameter
tuning and
control, as
well as multi-
objective
optimization.**

**This book can
serve as an
introductory
book for
graduates,**

Page 74/250

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**doctoral
students and
lecturers in
computer
science,
engineering
and natural
sciences. It
can also serve
a source of
inspiration for
new**

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Inspired
applications.

Computation And
Researchers
Machine Learning

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and engineers
International

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experts will
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also find it a
handy
reference.

Discusses and
summarizes
the latest

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developments

in nature-

Machine Learning

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algorithms

with comprehe

nsive, timely

literature

Provides a

theoretical

understanding

as well as

practical imple

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**mentation
hints Provides
a step-by-step
introduction to
each algorithm
This book
reviews the
latest
developments
in nature-
inspired
computation,**

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**with a focus
on the cross-
disciplinary
applications in
data mining
and machine
learning. Data
mining,
machine
learning and n
ature-inspired
computation**

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**are current
hot research
topics due to
their**

**importance in
both theory
and practical
applications.**

**Adopting an a
pplication-
focused
approach,**

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**each chapter
introduces a
specific topic,
with detailed
descriptions of
relevant
algorithms,
extensive
literature
reviews and i
mplementatio
n details.**

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Inspired

**Covering
topics such as**

nature-

inspired

algorithms,

swarm

intelligence,

classification,

clustering,

feature

selection,

cybersecurity,

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learning
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algorithms
Machine Learning

over cloud,
13th Mexican

extreme
International

learning
Conference On

machines,
Artificial

object
Intelligence

categorization
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, particle
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swarm
li Lecture Notes In

optimization,
Computer Science

flower

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**pollination and
firefly
algorithms,
and neural
networks, it
also presents
case studies
and
applications,
including
classifications
of crisis-**

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**related
tweets,
extraction of
named entities
in the Tamil
language, perf
ormance-
based
prediction of
diseases, and
healthcare
services. This**

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**book is both a
valuable a
reference
resource and a
practical guide
for students,
researchers
and
professionals
in computer
science, data
and**

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**management
sciences,
artificial
intelligence
and machine
learning.**

**Swarm
Intelligence
and bio-
inspired
computation
have become**

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**increasing
popular in the
last two**

**decades. Bio-
inspired**

algorithms

**such as ant
colony**

algorithms,

bat

algorithms,

bee

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Inspired

algorithms,

firefly

algorithms,

cuckoo search

and particle

swarm

optimization

have been

applied in

almost every

area of

science and

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engineering

with a

dramatic

increase of

number of

relevant

publications.

This book

reviews the

latest

developments

in swarm

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Intelligence
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**intelligence
and bio-
inspired
computation
from both the
theory and
application
side, providing
a complete
resource that
analyzes and
discusses the**

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**latest and
future trends
in research**

**directions. It
can help new
researchers to**

**carry out
timely**

**research and
inspire**

**readers to
develop new**

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Part
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**algorithms.
With its
impressive
breadth and
depth, this
book will be
useful for
advanced
undergraduate
students, PhD
students and
lecturers in**

Page 93/250

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Inspired

**computer
science,
engineering
and science as
well as
researchers
and engineers.
Focuses on
the
introduction
and analysis
of key**

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Machine Learning
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Conference On
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Computer Science

**algorithms
Includes case
studies for
real-world
applications
Contains a
balance of
theory and
applications,
so readers
who are
interested in**

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Inspired

**either
algorithm or
applications
will all benefit
from this
timely book.**

**Computer
scientist**

**Moshe Sipper
takes readers
on a thrilling
journey to the**

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**terra nova of
computation and
machine learning
provide a
compelling
look at cutting-
edge
computers,
robots, and
machines now
and in the
decades
ahead.**

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**Brain-Inspired
Computation And
Machine Learning**
4th

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**International
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BrainComp
Conference On
Artificial
Intelligence**
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Gutierrez, Oaxaca, Mexico, Part 1 & 2

**2019, Cetraro,
Italy, July
15-19, 2019,
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Selected
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Morocco,

Computer Science

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**2021,
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Methods and
Applications
Proceedings of
CSI 2015**

The book
provides
readers with a
snapshot of
the state of

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the art in the

Computation And
field of natur
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13th Mexican
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optimization.

Intelligence
The approach

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is mainly prac

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Computation And
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Intelligence
Applications
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range of real-
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Computer Science
optimization

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problems: from
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feature
Machine Learning
selection and
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image
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enhancement to
Conference On
scheduling and
Artificial
dynamic
Intelligence
resource
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management,
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from wireless
li Lecture Notes In
sensor
Computer Science
networks and

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International

planning and

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Artificial

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Intelligence

from topology

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control and

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morphological

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filters to

Computer Science

nutritional

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Computation And
and antenna
Machine Learning
array design.

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Computer Science
exploring the

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Machine Learning

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computing over

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other methods,

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Intelligence

the mixing

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ii Lecture Notes In

algorithms.

Computer Science

The book also

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introduces a
wide range of
algorithms,

including the
ant colony

optimization,

the bat

algorithm,

genetic

algorithms,

the collision-

based

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optimization

Computation And

algorithm, the

Machine Learning

flower

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pollination

International

algorithm,

Conference On

multi-agent

Artificial

systems and

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particle swarm

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book is

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intended as a

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practice-
oriented
Machine Learning
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guide for

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Artificial
and

Intelligence
professionals.

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discusses the
current

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research and

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concepts in
Computation And
data science
Machine Learning
and how these
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can be

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Focusing on
various data

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Computation And

problems,

Machine Learning

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sification,

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explores how

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researchers

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are using natu

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optimization
Computation And
techniques to
Machine Learning
find solutions

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to these
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problems in
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domains such

Artificial
as disease
Intelligence
analysis and

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Gutii 1 2 Rrez Part
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Computer Science
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Computation And

networking, hi

Machine Learning

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data analysis,

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analysis,

Intelligence

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and deep

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insights and
inspiration
for

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researchers to
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wanting to
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employ nature-

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Intelligence
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endeavors.

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Gain insight

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into the world
of nature-

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optimization

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techniques and

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algorithms.

Artificial

This book will

Intelligence

prepare you to

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Computer Science

optimization

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techniques to
solve problems
using Java.

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Artificial
Intelligence
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You'll start
with an

introduction
to the hidden
algorithms

that nature

uses and find

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approximate

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solutions to
Computation And
optimization
Machine Learning
problems.

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You'll then

International
see how living
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creatures such
Artificial
as fish and

Intelligence
birds are able
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to perform

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computation to
solve specific
optimization

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tasks. This
book also
covers various
nature-

inspired
algorithms by
reviewing code
examples for
each one
followed by
crisp and
clear

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explanations

Computation And

of the

Machine Learning

algorithm

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using Java

International
code. You'll

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Artificial

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Intelligence

algorithm in

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industry

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scenarios such

Computer Science

as fleet

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scheduling in
Computation And
supply chain
Machine Learning
management,
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and shop floor
International
management in
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industrial and
Artificial
manufacturing
Intelligence
applications.

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Algorithms

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with Java is

Computation And

your pathway

Machine Learning

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understanding

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Computer Science

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an ability to

apply nature-

inspired

algorithms to

find

approximate

solutions to

them. What

You'll Learn

Study

optimization

and its

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problems
Examine nature-
Machine Learning
inspired
13th Mexican
algorithms
International
such as
Conference On
Particle
Artificial
Swarm, Gray
Intelligence
wolf, etc. See
Micai 2014 Tuxtla
how nature-
Gutii 1 2 Rrez Part
inspired
li Lecture Notes In
algorithms are
Computer Science
being used to

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Computation And

optimization

Machine Learning

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Java for

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algorithms

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Who This Book

Computer Science

Is For

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Inspired

Software devel

opers/architec

ts who are

looking to

hone their

skills in area

of problem

solving

related to

optimization

with Java.

This book

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presents

Computation And

nature

Machine Learning

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computing

International
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Intelligence

wireless

sensor network

(WSN) .

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Although the

use of WSN is

increasing

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rapidly, it
has a number
of limitations

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in the context
of battery

International
Conference On

issue,
distraction,

Artificial
Intelligence

low

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communication
speed, and

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means there is

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a need for
innovative
intelligent
algorithms to
address these
issues. The

book is
divided into
three sections
and also

includes an
introductory

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chapter

Computation And

providing an

Machine Learning

overview of

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WSN and its

International

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Artificial

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challenges.

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describes bio-

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optimization

Machine Learning

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genetic

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Artificial

(GA),

Intelligence

artificial

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neural

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networks (ANN)

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and artificial

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immune systems

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(AIS) in the
Computation And
contexts of
Machine Learning
fault analysis
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and diagnosis,
International
and traffic
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management.
Artificial

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highlights
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swarm
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optimization
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techniques,
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buffalo

Machine Learning

optimization

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(ABO),

International

particle swarm

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optimization

Artificial

(PSO), and

Intelligence

modified swarm

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intelligence

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technique for

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solving the

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problems of

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routing,
network

Computation And

Machine Learning

parameters

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optimization,

International

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estimation.

Artificial

Lastly,

Intelligence

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explores multi-

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objective

li Lecture Notes In

optimization

Computer Science

techniques

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using GA, PSO,

ANN, teaching-

Machine Learning

learning-based

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optimization

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(TLBO), and

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combinations

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WSN problems
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algorithms.

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Concepts,
Intelligence
Methodologies,
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and Nature-

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and Resilience

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Applications
Machine Learning
Nature-

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Intelligence
Computing and its

Applications 13th

Mexican

International
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Intelligence,
MICA 2014, Tuxtla
Gutiérrez, Mexico,
November 16-22,
2014. Proceedings,
Part I Springer
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Artificial
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This book is about
nature considered
as the totality of
physical existence,
the universe, and
our present day
attempts to
understand it. If we

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Inspired
see the universe as
a network of
networks of learning

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

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Computation And
Machine Learning

elementary
particles, atoms,
molecules, cells,

(and especially
neurons when it
comes to

International
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Intelligence

understanding of
cognition and
intelligence),
organs, organisms

and their ecologies?

Regarding our
computational
models of natural
Computer Science

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Computation And
Machine Learning
Toul-Mexico
International
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Intelligence
Miami 2014 Tuxtla

phenomena
Feynman famously
wondered: "Why
should it take an
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

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Inspired
how to harness
nature's
computational

power as we
harness its energy
and materials? This
volume includes a
selection of

contributions from
the Symposium on
Natural Computing/
Unconventional
Computing and Its
Philosophical

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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, leading
researchers
investigated
questions of
computing nature by

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Computational And
Machine Learning
10th Mexican
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exploring various
facets of
computation as we
find it in nature:

relationships
between different
levels of
computation,
cognition with
learning and
intelligence,
mathematical
background,
relationships to

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Inspired 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,

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Inspired
concurrency and
agent models; in
short this book
presents natural
computing and
unconventional
computing as
extension of the
idea of computation
as symbol
manipulation.

"This book provides
applications of
nature inspired

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Inspired
computing for
economic theory
and practice,
Machine Learning

finance and stock-
market,
International

Conference On
manufacturing
systems, marketing,
Artificial

e-commerce, e-
auctions, multi-
Intelligence

agent systems and
Micro 2014 Texts

bottom-up
Quiz 2 Rez Part

simulations for
social sciences and
Lecture Notes In
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operations manage

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ment"--Provided by
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Brain and Nature-

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Computation and

Recognition

presents a

systematic analysis

of neural networks,

natural computing,

machine learning

and compression,

algorithms and

applications

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inspired by the brain
and biological
mechanisms found
in nature. Sections
cover new
developments and
main applications,
algorithms and
simulations.

Developments in
brain and nature-
inspired learning
have promoted
interest in image

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Inspired
processing,
clustering problems,
change detection,
control theory and
other disciplines.

The book discusses
the main problems
and applications
pertaining to bio-
inspired

computation and
recognition,
introducing
algorithm

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Inspired
Computation And
Machine Learning

implementation,
model simulation,
and practical
application of
parameter setting.

International
Conference On
Artificial
Intelligence
Mexico 2014 Tuxtla
Quintana Roo Part
II Lecture Notes In
Computer Science

Readers will find
solutions to
problems in
computation and
recognition,
particularly neural
networks, natural
computing, machine
learning and

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PDF Nature

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

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Inspired
and nature-inspired
learning,
computation and
recognition

Describes the
biological
mechanisms,
mathematical
analyses and
scientific principles
behind brain and
nature-inspired
learning, calculation
and recognition

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Inspired
Systematically
Computational And
analyzes neural
networks, natural
learning, and
compression,
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Intelligence
inspired by the brain
and biological
mechanisms found
in nature Discusses
the theory and
application of

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algorithms and
neural networks,
natural computing,
machine learning
and compression
perception

Brain and Nature-
Inspired Learning,
Computation and
Recognition

Nature-Inspired Part
Computation in
Navigation and
Routing Problems

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Human-Inspired
Computing and its
Applications

Nature Inspired
Computing for Data
Science

Conference On
The Coming Age of
Artificial
Bio-inspired
Computing

Handbook of Tuxtla
Research on Nature-
Inspired Computing
II Lecture Notes in
Computer Science
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Inspired
Computation And
Machine Learning
2019 Mexico
International
Workshop on Brain-
Inspired Computing,
BrainComp 2019,
held in Cetraro, Italy,
in July 2019. The 11
papers presented in
this volume were
carefully reviewed
and selected for

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Machine Learning
from Mexican
International
Conference On
Artificial
Intelligence
Mexico 2014 Tuxtla
Guanajuato Part

inclusion in this book. They deal with research on brain atlasing, multi-scale models and simulation, HPC and data infra-structures for neuroscience as well as artificial and natural neural architectures.

Bio-Inspired
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Computation and Applications in

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18th Mexican
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Cruz, 12-16 Feb
II Lecture Notes in
Computer Science

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 colony
optimization, particle
swarm optimization,
and bat and firefly

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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 researchers establish new research avenues to pursue. Reviews the latest

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Inspired
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 image
processing Helps
solve complex
problems in image

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Inspired
and signal
processing Contains
a diverse range of
self-contained case
studies in real-world
applications
The purpose of
designing this book
is to portray certain
practical applications
of nature-inspired
computation in
machine learning for
the better

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understanding of the world 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-

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Inspired
Computation And
Mechanics Learning
10th Mexican
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Intelligence
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Garcia 2014 Part
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Computer Science

specific solutions.
Various nature-
inspired algorithms
and their
multidisciplinary
applications (in
mechanical
engineering,
electrical
engineering,
machine learning,
image processing,
data mining and
wireless network

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domains are detailed, which will make this book a handy reference guide.

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 computing

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Inspired
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 Part
Computing:
Concepts,
Methodologies,

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Computation And
Machine Learning
19th Mexican
International
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Artificial
Intelligence
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Tools, and Applications takes an interdisciplinary 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

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biologically and nature-inspired technologies. Emphasizing critical research in a comprehensive multi-volume set, this publication is designed for use by IT professionals, researchers, and graduate students studying intelligent computing.

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Computation And
Computing for Smart

Application Design

Nature-Inspired
Computing Design,
Development, and
Applications

Machine Nature

Turing Centenary

Perspective

Nature-Inspired
Computing and
Optimization

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Inspired
Computation And
Machine Learning

**Renewable energy
is crucial to**

**preserve the
environment. This**

**energy involves
various systems**

**that must be
optimized and**

assessed to

provide better

performance;

however, the

design and

development of

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Inspired
Computation And
Machine Learning

**renewable energy
systems remains a
challenge. It is**

10th Mexican
International
Conference On
Artificial
Intelligence
IJCAC 2014, Tuxtla
Cruz, Mexico, Part

**crucial to
implement the
latest innovative
research in the
field in order to
develop and
improve renewable
energy systems.**

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Computer Science

**Applications of
Nature-Inspired
Computing in**

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Renewable Energy Systems discusses the latest research on nature-inspired computing approaches applied to the design and development of renewable energy systems and provides new solutions to the renewable energy

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Inspired
Computation And
Machine Learning

domain. Covering

topics such as

microgrids, wind

power, and

artificial neural

networks, it is

ideal for

engineers,

industry

professionals,

researchers,

academicians,

practitioners,

teachers, and

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Inspired

students.

The two-volume

set LNAI 8856 and

LNAI 8857

constitutes the

proceedings of the

13th Mexican

International

Conference on

Artificial 4 Tuxtla

Intelligence, MICAI

2014, held in

Tuxtla, Mexico, in

November 2014.

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The total of 87 papers plus 1 invited talk presented in these proceedings were carefully reviewed and selected from 348 submissions. The first volume deals with advances in human-inspired computing and its applications. It

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**contains 44 papers
structured into
seven sections:
natural language
processing, natural
language
processing
applications,
opinion mining,
sentiment
analysis, and social
network
applications,
computer vision,**

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***image processing,
logic, reasoning,
and multi-agent
systems, and
intelligent tutoring
systems. The
second volume
deals with
advances in nature-
inspired
computation and
machine learning
and contains also
44 papers***

Page 177/250

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Inspired
Computation And
Machine Learning
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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Inspired
**biomedical
applications.**

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

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Inspired
**Intelligent
Computing And
Towards Learning**

**Advancement of
Machine
Intelligence. This
Volume contains
the papers
presented in the
Seventh World**

**Congress
(NaBIC'15) held in
Pietermaritzburg,
South Africa during**

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Inspired
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 the

computational

intelligence field.

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Inspired

Recent

Developments in

Biologically Inspired

Computing is

necessary reading

for undergraduate

and graduate

students, and

researchers

interested in

knowing the most

recent advances in

problem solving

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Inspired
**techniques
inspired by nature.**

**This book covers
the most relevant**

**areas in
computational
intelligence,**

**including
evolutionary**

algorithms,

artificial neural

**networks, artificial
immune systems**

and swarm

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Computation And
Machine Learning

**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
number of
computational
approaches,
presenting the**

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**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
help newcomers
and mature
researchers to get**

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Inspired
**the point of the
new approaches
presented.**

**Nature Inspired
Computing**

**Nature-Inspired
Optimization**

**Algorithms with
Java**

Clever Algorithms

**Computational Part
Network**

**Application Tools
for Performance**

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Metaheuristics and
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Computing
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Physics and
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Chemistry-Based
Conference On
Algorithms

Artificial
Soft computing
Intelligence
and nature-
inspired
Tuxtla
computing both
Gutii 1 2 Rrez Part
play a
Lecture Notes In
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significant role

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in developing a
Computation And
better
Machine Learning
understanding
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to machine
International
learning. When
Conference On
studied
Artificial
together, they
Intelligence
can offer new
Micai2014, Tuxtla
perspectives on
Gutierrez, Rrez Part
the learning
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process of
Computer Science
machines. The

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and Nature-
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Algorithms is an
essential source
for the latest
scholarly
research on
applications of
nature-inspired

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soft
Machine Learning
computation And
computational
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systems.

Featuring
International
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comprehensive
Artificial
coverage on a
Intelligence
range of topics
Micai2014 Tuxtla
and
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perspectives
ii Lecture Notes In
such as swarm
Computer Science
intelligence,

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Inspired

speech

recognition, and

electromagnetic

problem solving,

this publication

is ideally

designed for

students,

researchers,

scholars,

professionals,

and

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practitioners
seeking current
research on the
advanced
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computing
Intelligence
systems.

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This book
presents a
cutting-edge
research

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*procedure in the
Nature-Inspired
Computing (NIC)
domain and its
connections with
computational
intelligence
areas in real-
world
engineering
applications. It
introduces*

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*readers to a
broad range of
algorithms, such
as genetic
algorithms,
particle swarm
optimization, the
firefly algorithm,
flower
pollination
algorithm,
collision-based*

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*optimization
algorithm, bat
algorithm, ant
colony
optimization,
and multi-agent
systems. In turn,
it provides an
overview of
meta-heuristic
algorithms,
comparing the*

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advantages and disadvantages of each.

Moreover, the book provides a brief outline of the integration of nature-inspired computing techniques and various

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Intelligence
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Computer Science

*computational
intelligence
paradigms, and
highlights
nature-inspired
computing
techniques in a
range of
applications,
including:
evolutionary
robotics, sports*

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Inspired
training
planning,
assessment of
water

distribution
systems, flood
simulation and
forecasting,

traffic control,
gene expression
analysis,
antenna array

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design, and scheduling/dynamic resource management. This book focuses primarily on the nature-inspired approach for designing smart applications. It includes several

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implementation
paradigms such
as design and
path planning of
wireless
network,
security
mechanism and
implementation
for dynamic as
well as static
nodes, learning

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method of cloud
Computation And
computing, data
Machine Learning
exploration and
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management,
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data analysis
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and

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optimization,
Intelligence
decision taking
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in conflicting
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environment,
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etc. The book
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fundamentally

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highlights the recent research advancements in the field of engineering and science.

Technological tools and computational techniques have enhanced the healthcare

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*industry. These
advancements
have led to
significant
progress and
novel
opportunities for
biomedical
engineering.
Nature-Inspired
Intelligent
Techniques for*

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*Solving
Biomedical
Engineering
Problems is a
pivotal
reference source
for emerging
scholarly
research on
trends and
techniques in
the utilization of*

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Inspired
*nature-inspired
approaches in
biomedical
engineering.
Featuring
extensive
coverage on
relevant areas
such as artificial
intelligence,
clinical decision
support*

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

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Inspired

latest

*developments in
biomedical
technologies.*

*Nature-Inspired
Computation
and Machine
Learning*

*Proceedings of
the 7th World
Congress on
Nature and*

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(NaBIC2015) in
Pietermaritzburg
Conference On
, South Africa,
Artificial
held December
Intelligence
01-03, 2015

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Modeling,
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Methodologies,
Tools, and
Computer Science

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Applications
Computation And

**Nature-inspired
computation**

and swarm

intelligence

have become

popular and

effective tools

for solving

problems in

optimization,

computational

intelligence,

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Inspired
**soft computing
and data
science.**

**Recently, the
literature in the
field has
expanded
rapidly, with
new algorithms
and
applications
emerging.**

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Machine Learning

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Conferences

***Computation
and Swarm
Intelligence:
Algorithms,
Theory and
Applications is
a timely
reference***

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Conference
On
Swarm
Intelligence

**developments
in algorithms,
theory and
applications of
nature-inspired
algorithms and
swarm**

**intelligence. It
reviews and
documents the
new**

**developments,
focusing on**

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Inspired
**nature-inspired
algorithms and
their**

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

**. The book
includes case
studies of
diverse real-
world**

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Computation
and Swarm
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Algorithms,
Theory and

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Computation

and Swarm

Intelligence:

Algorithms,

Theory and

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Computer On
science,

engineering,
data science,

and
management

science, who
want a

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

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**algorithms and
their
fundamentals,
including:**

**particle swarm
optimization,
bat algorithm,
cuckoo search,
firefly
algorithm,
flower
pollination
algorithm,**

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**differential
evolution and
genetic**

algorithms as

well as multi-

objective

optimization

algorithms and

others Provides

a theoretical

foundation and

analyses of

algorithms,

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Inspired

**including:
statistical
theory and
Markov chain
theory on the
convergence
and stability of
algorithms,
dynamical
system theory,
benchmarking
of optimization,
no-free-lunch**

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theorems, and a

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generalized

Machine Learning
mathematical

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framework

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Confidence
diversity of case

Applied
studies of real-

Intelligence
world

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applications:

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feature

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selection,

Computer Science
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,

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**swarm robots,
neural
networks,
engineering
designs and
others**

**This book
contains
research
contributions
from leading
global scholars
in nature-**

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***inspired
computation. It
includes
comprehensive
coverage of
each respective
topic, while also
highlighting
recent and
future trends.
The
contributions
provides***

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Machine Learning
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Computational
Intelligence
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**readers with a
snapshot of the
state of the art
in the field of
nature-inspired
computing and
its application.**

**This book has
focus on the
current
researches
while
highlighting**

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Inspired
the empirical

Computation And
results along

Machine Learning
with theoretical

13th Mexican
concepts to

International
provide a

Comprehensive
comprehensive

Artificial
reference for

Intelligence
students,

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researchers,

Guil 1-2 Krez Part
scholars,

II Lecture Notes In
professionals

Computer Science
and

practitioners in

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Inspired
***the field of
Advanced
Artificial***

***Intelligence,
Nature-Inspired
Algorithms and
Soft***

Computing.

***This volume
comprises the
select***

***proceedings of
the annual***

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***convention of
the Computer
Society of India.
Divided into 10
topical volumes,
the proceedings
present papers
on state-of-the-
art research,
surveys, and
succinct
reviews. The
volumes cover***

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Inspired
diverse topics

Computation And
ranging from

Machine Learning
communication

13th Mexican
s networks to

International
big data

Computation
analytics, and

Artificial Intelligence
from system

Intelligence
architecture to

Intelligence
cyber security.

Intelligence
This volume

Intelligence
focuses on

Intelligence
Nature Inspired

Intelligence
Computing. The

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Inspired
Computation And
Machine Learning
13th Mexican
Internationa

***contents of this
book will be
useful to
researchers and
students alike.***

Corfores
Artificia
Intelligence
Mexico 2014 Fuctia
Gutir 2 Riez Part
II Lecture Notes In
Computer Science

***The observation
of nature has
been the
inspiration for
many materials,
laws, and
theories, as well
as***

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Inspired

**computational
methods.**

Computation And

Nature-Inspired

computing

Design,

Development,

and

Applications

covers all the

main areas of

natural

computing,

from methods

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Inspired

to

computationally

synthesized

natural

phenomena, to

computing

paradigms

based on

natural

materials. This

volume is

comprised of

ideas and

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Inspired
**research from
nature to
develop
computational
systems or
materials to
perform
computation.**

**Researchers,
academic
educators, and
professionals
will find a**

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**comprehensive
view of all
aspects of
natural**

International
**computing with
emphasis on its
main branches.**

Intelligence
**Natural
Computing in
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Finance
Nature-Inspired
Computing**

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**Mathematical
Foundations of
Nature-Inspired
Algorithms**

Applied Nature-
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**Algorithms and
Case Studies**

**Algorithms,
Theory and
Applications**

A Look at

Page 236/250

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**Optimization
Techniques**

Nature-Inspired

Computing: Physics and

Chemistry-Based

Algorithms provides a
comprehensive

introduction to the
methodologies and

algorithms in nature-

inspired computing,

with an emphasis on

applications to real-life

engineering problems.

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Inspired
The research interest for
Nature-inspired

Computing has grown
considerably exploring

different 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

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Inspired
investigation 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,
postgraduates, research
students, and
professionals, the book

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is written at a
comprehensible level
for students who have
some basic knowledge
of calculus and
differential equations,
and some exposure to
optimization theory.

Due to the focus on
search and optimization,
the book is also
appropriate for
electrical, control, civil,
industrial and

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manufacturing
engineering, business,
and economics students,

as well as those in

computer and
information sciences.

With the mathematical
and programming
references and

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applications in each
chapter, the book is self-
contained, and can also
serve as a reference for
researchers and

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scientists in the fields of system science, natural computing, and optimization.

This book addresses the frontier 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

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algorithm 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 evaluation of
classification pipelines,
and optimizing wind-

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energy power
generation plants. The
book also presents a

variety of nature-
inspired methods and
illustrates methods of
adapting these to said
applications. Nature-
inspired computation,
developed by

mimicking natural
phenomena, makes a
significant contribution
toward the solution of

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non-convex

optimization problems

that normal

mathematical optimizers

fail to solve. As such, a

wide range of nature-

inspired computing

approaches has been

used in

multidisciplinary

engineering

applications. Written by

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variety of fields, this book presents the latest findings, novel techniques and pioneering applications.

The book presents recent advances in nature-inspired computing, giving a special emphasis to control systems applications. It reviews different techniques used for simulating

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purpose of designing
robust, predictive and
adaptive control
strategies. The book is a
collection of several
contributions, covering
either more general

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approaches in control
systems, or
methodologies for
control tuning and

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adaptive controllers, as well as exciting applications of nature-inspired techniques in robotics. On one side, the book is expected to 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

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

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