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Intelligence And

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I Intelligence

And

Applications

The International

Conference on

“ Computational

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Journal Of  
Intelligence in Data  
Computational  
Mining ”  
Intelligence And  
Applications

(ICCIDM), after three successful versions, has reached to its fourth version with a lot of aspiration. The best selected conference papers are reviewed and compiled to form this volume.

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The proceedings discusses the latest solutions, scientific results and methods in solving intriguing problems in the fields of data mining, computational intelligence, big data analytics, and soft computing. The volume presents a

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sneak preview into the strengths and weakness of trending applications and research findings in the field of computational intelligence and data mining along with related field.

In recent years, there has been a growing

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interest in the need for designing intelligent systems to address complex decision systems.

One of the most challenging issues for the intelligent system is to effectively handle real-world uncertainties that cannot be

eliminated. These uncertainties include various types of information that are incomplete, imprecise, fragmentary, not fully reliable, vague, contradictory, deficient, and overloading. The uncertainties result

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Applications

in a lack of the full  
and precise  
knowledge of the  
decision system,  
including the  
determining and  
selection of  
evaluation criteria,  
alternatives, weights,  
assignment scores,  
and the final  
integrated decision

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result.

Computational  
Intelligence And  
Applications  
intelligent techniques  
(including fuzzy  
logic, neural  
networks, and  
genetic algorithms  
etc.), which are  
complimentary to  
the existing  
traditional  
techniques, have



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shown great potential to solve these demanding, real-world decision problems that exist in uncertain and unpredictable environments. These technologies have formed the foundation for intelligent systems.

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In recent years, swarm intelligence has become a popular computational approach among researchers working on optimization problems throughout the globe. Several algorithms inside swarm intelligence

have been implemented due to their application to real-world issues and other advantages. A specific procedure, Fireworks Algorithm, is an emerging method that studies the explosion process of fireworks within

local areas.

Applications of this developing program are undiscovered, and research is necessary for scientists to fully understand the workings of this innovative system. The Handbook of Research on

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Journal Of  
Fireworks  
Computational  
Algorithms and  
Intelligence And  
Swarm Intelligence  
Applications

is a pivotal reference source that provides vital research on theory analysis, improvements, and applications of fireworks algorithm. While highlighting topics such as

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convergence rate,  
parameter  
applications, and  
global optimization  
analysis, this  
publication explores  
up-to-date progress  
on the specific  
techniques of this  
algorithm. This book  
is ideally designed  
for researchers, data

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scientists,  
mathematicians,  
engineers, software  
developers,  
postgraduates, and  
academicians  
seeking coverage on  
this evolutionary  
computation  
method.

Big Data Analytics  
for Intelligent

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Healthcare  
Management  
Intelligence And  
Applications  
Proceedings of  
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Conference on  
Computational  
Intelligence  
Edge Computing  
and Computational  
Intelligence  
Paradigms for the  
IoT



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Journal Of  
Recent Trends in  
Computational  
Intelligence Enabled  
Applications  
Research

COMPUTATIONA  
L INTELLIGENCE  
IN COMPLEX  
DECISION  
MAKING  
SYSTEMS

Hybrid  
Computational

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The field of computational intelligence has grown tremendously over that past five years, thanks to evolving soft computing and artificial intelligent methodologies,

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tools and  
Computational  
techniques for  
Intelligence And  
Applications  
essence of

intelligence  
embedded in real  
life observations.  
Consequently,  
scientists have  
been able to  
explain and  
understand real

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Journal Of  
life processes and  
Computational  
practices which  
Intelligence And  
previously often  
Applications  
remain unexplored  
by virtue of their  
underlying  
imprecision,  
uncertainties and  
redundancies, and  
the unavailability  
of appropriate  
methods for

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describing the  
Computational  
incompleteness  
Intelligence And  
and vagueness of  
Applications  
information

represented. With  
the advent of the  
field of  
computational  
intelligence,  
researchers are  
now able to  
explore and

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unearth the intelligence, otherwise insurmountable, embedded in the systems under consideration. Computational Intelligence is now not limited to only specific computational

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fields, it has made inroads in signal processing, smart manufacturing, predictive control, robot navigation, smart cities, and sensor design to name a few.

Recent Trends in  
Computational  
Intelligence

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Journal Of  
Enabled  
Research:  
Theoretical  
Foundations and  
Applications

explores the use of  
this computational  
paradigm across a  
wide range of  
applied domains  
which handle  
meaningful



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information.

## Chapters

investigate a broad spectrum of the applications of computational intelligence across different platforms and disciplines, expanding our knowledge base of various research

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initiatives in this direction. This volume aims to bring together researchers, engineers, developers and practitioners from academia and industry working in all major areas and interdisciplinary

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areas of  
computational  
intelligence, and  
communication  
systems, computer  
networks, and soft  
computing.

Provides insights  
into the theory,  
algorithms,  
implementation,  
and application of

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Journal Of  
computational  
Computational  
intelligence  
Intelligence And  
techniques Covers  
Applications  
a wide range of  
applications of  
deep learning  
across various  
domains which are  
researching the  
applications of  
computational  
intelligence

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Intelligence And  
Applications

Investigates novel techniques and reviews the state-of-the-art in the areas of machine learning, computer vision, soft computing techniques

This book presents futuristic trends in computational

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intelligence  
Computational  
including  
Intelligence And  
algorithms used in  
Applications  
different  
application  
domains in health  
informatics  
covering bio-  
medical,  
bioinformatics,  
& biological  
sciences. It

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provides  
Computational  
conceptual  
Intelligence And  
framework with a  
Applications  
focus on

computational  
intelligence  
techniques in  
biomedical  
engineering  
& health  
informatics.

Applications of

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Computational

Intelligence in Multi-

Intelligence And

Disciplinary

Applications  
Research provides

the readers with a

comprehensive

handbook for

applying the

powerful

principles,

concepts, and

algorithms of



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computational intelligence to a wide spectrum of research cases.

The book covers the main approaches used in computational intelligence, including fuzzy logic, neural networks,

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evolutionary  
Computational  
Intelligence And  
Applications

computation,  
learning theory,  
and probabilistic  
methods, all of  
which can be  
collectively viewed  
as soft computing.  
Other key  
approaches  
included are  
swarm intelligence

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Journal Of  
and artificial  
Computational  
immune systems.  
Intelligence And  
These approaches  
Applications  
provide

researchers with  
powerful tools for  
analysis and  
problem-solving  
when data is  
incomplete and  
when the problem  
under

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Applications

consideration is too complex for standard mathematics and the crisp logic approach of Boolean computing.

Provides an overview of the key methods of computational

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intelligence,  
Computational  
including fuzzy  
Intelligence And  
logic, neural  
Applications

networks,  
evolutionary  
computation,  
learning theory,  
and probabilistic  
methods Includes  
case studies and  
real-world  
examples of

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computational  
Computational  
intelligence  
Intelligence And  
Applications  
applied in a variety  
of research topics,  
including  
bioinformatics,  
biomedical  
engineering, big  
data analytics,  
information  
security, signal  
processing,

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machine learning,  
Computational  
nanotechnology,  
Intelligence And  
Applications  
and optimization  
techniques

Presents a  
thorough technical  
explanation on  
how computational  
intelligence is  
applied that is  
suitable for a wide  
range of

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multidisciplinary  
and  
Computational  
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Applications  
research

Challenges and  
Applications  
Mathematical  
Modeling,  
Computational  
Intelligence  
Techniques and  
Renewable Energy



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and Computational  
Intelligence

(IJSSCI).: to 10;

Pages:11 to 20;

Pages:21 to 30;

Pages:31 to 40;

Pages:41 to 50;

Pages:51 to 60;

Pages:61 to 70;

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Pages:71 to 77  
Applications of  
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Intelligence in Multi-  
Disciplinary  
Research  
Handbook of  
Computational  
Intelligence in  
Biomedical  
Engineering and  
Healthcare

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Intelligence And  
Applications  
Computational  
Intelligence  
Techniques for  
Combating  
COVID-19

*Edge computing  
is focused on  
devices and  
technologies  
that are  
attached to  
the internet*

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Journal Of  
*of things*  
(IoT).

Identifying  
IoT use across  
a range of  
industries and  
measuring  
strategic  
values helps  
identify what  
technologies  
to pursue and

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Intelligence And  
Applications

*can avoid  
wasted  
resources on  
deployments  
with limited  
values. Edge  
Computing and  
Computational  
Intelligence  
Paradigms for  
the IoT is a  
critical*

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Computational  
Intelligence And  
Applications

*research book  
that provides  
a complete  
insight on the  
recent  
advancements  
and  
integration of  
intelligence  
in IoT. This  
book  
highlights*

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Journal Of

*various topics*

Computational

*such as*

Intelligence And

*disaster*

Applications

*prediction,*

*governance,*

*and*

*healthcare. It*

*is an*

*excellent*

*resource for*

*researchers,*

*working*

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Journal Of  
*professionals,  
Computational  
academicians,  
Intelligence And  
policymakers,  
Applications  
and defense*

*companies.*

*This book*

*gathers*

*selected*

*papers*

*presented at*

*the conference*

*of the Forum*



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*for Interdisci  
Computational  
plinary  
Intelligence And  
Mathematics  
Applications*  
(FIM), held at  
Palau Macaya,  
Barcelona, on  
18 to 20  
November,  
2015. The  
event was co-  
organized by  
the University

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Journal Of  
*of Barcelona*  
Computational  
*(Spain), the*  
Intelligence And  
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*Spanish Royal*  
Academy of  
*Economic and*  
*Financial*  
*Sciences*  
*(Spain) and*  
*the Forum for*  
*Interdisciplin*  
*ary*  
*Mathematics*

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Journal Of  
*(India)*. This  
Computational  
Intelligence And  
Applications

*instalment of  
the conference  
was presented  
with the title  
“Applied  
Mathematics  
and  
Computational  
Intelligence”  
and  
particularly*

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Journal Of  
*focused on the  
use of  
Mathematics  
and*

*Computational  
Intelligence  
techniques in  
a diverse  
range of  
scientific  
disciplines,  
as well as*

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Applications

*their applications in real-world problems. The book presents thirty peer-reviewed research papers, organised into four topical sections: on*

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Mathematical  
Computational  
Intelligence And  
Applications

*Foundations;  
Computational  
Intelligence  
and  
Optimization  
Techniques;  
Modelling and  
Simulation  
Techniques;  
and  
Applications*

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Journal Of  
*in Business*  
Computational  
*and*  
Intelligence And  
*Engineering.*  
Applications

*This book will  
be of great  
interest to  
anyone working  
in the area of  
applied  
mathematics  
and  
computational*

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Applications

*intelligence  
and will be  
especially  
useful for  
scientists and  
graduate  
students  
pursuing  
research in  
these fields.  
Studies on  
robotics*



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Applications

*applications  
have grown  
substantially  
in recent  
years, with  
swarm robotics  
being a  
relatively new  
area of  
research.*

*Inspired by  
studies in*

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*swarm*

Computational  
intelligence  
Intelligence And  
Applications  
*and robotics,  
swarm robotics*

*facilitates*

*interactions*

*between robots*

*as well as*

*their*

*interactions*

*with the*

*environment.*

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*The Handbook  
of Research on  
Design,  
Control, and  
Modeling of  
Swarm Robotics*

*is a  
collection of  
the most  
important  
research  
achievements*

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Applications

*in swarm  
robotics thus  
far, covering  
the growing  
areas of  
design,  
control, and  
modeling of  
swarm  
robotics. This  
handbook  
serves as an*

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Journal Of  
*essential*  
Computational  
Intelligence And  
Applications

*resource for  
researchers,  
engineers,  
graduates, and  
senior  
undergraduates  
with interests  
in swarm  
robotics and  
its  
applications.*

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Intelligence  
and Data  
Sciences*

*Progress and  
Challenges  
International  
Journal of  
Computational  
Intelligence &  
Telecommunicat  
ion Systems*

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*Applied  
Computational  
Intelligence And  
Applications*

*Computational  
Intelligence  
IJCCI 2019  
Computational  
Intelligence  
in Data Mining*

**This book presents  
the latest cutting  
edge research,**

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theoretical  
Computational  
methods, and  
Intelligence And  
novel applications  
Applications  
in the field of

computational  
intelligence and  
computational  
biological  
approaches that  
are aiming to  
combat COVID-19.  
The book gives the



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technological key  
drivers behind  
using AI to find  
drugs that target  
the virus, shedding  
light on the  
structure of  
COVID-19,  
detecting the  
outbreak and  
spread of new  
diseases, spotting

signs of a  
COVID-19  
infection in  
medical images,  
monitoring how  
the virus and  
lockdown is  
affecting mental  
health, and  
forecasting how  
COVID-19 cases  
and deaths will

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spread across  
cities and why.  
Further, the book  
helps readers  
understand  
computational  
intelligence  
techniques  
combating  
COVID-19 in a  
simple and  
systematic way.

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Intelligence in  
Manufacturing  
Applications  
addresses

applications of AI,  
machine learning  
and other  
innovative  
computational  
techniques across  
the manufacturing  
supply chain. The

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rapid development  
of smart or digital  
manufacturing  
known as Industry  
4.0 has swiftly  
provided a large  
number of  
opportunities for  
product and  
manufacturing  
process  
improvement.

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Selecting the appropriate technologies and combining them successfully is a challenge this book helps readers overcome . It explains how to prepare different manufacturing cells for flexibility

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and enhanced  
productivity with  
better supply  
chain

management, e.g.,  
calibrating design  
machine tools for  
automation and  
agility.

Computational  
intelligence  
applications for

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non-conventional  
Computational  
manufacturing  
Intelligence And  
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processes such as  
ECM and EDM are  
covered alongside  
recent advances in  
traditional  
processes like  
casting, welding  
and metal forming.  
As well as  
describing specific



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applications, this practical guide also explains the computational intelligence paradigm for enhanced supply chain management. Includes hot topics such as augmented and

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virtual reality  
Computational  
applications in  
Intelligence And  
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Provides details of  
computational  
techniques, such  
as nature inspired  
algorithms for  
manufacturing  
process modeling  
Gives practical  
technical advice

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on how to  
Computational  
calibrate processes  
Intelligence And  
and tools to work  
Applications  
efficiently in an  
industry 4.0  
system

This book gathers  
outstanding  
research papers  
presented at the  
International Joint  
Conference on

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Intelligence (IJCCI  
2018), which was  
held at Daffodil  
International  
University on  
14–15 December  
2018. The topics  
covered include:  
collective  
intelligence, soft  
computing,

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optimization,  
cloud computing,  
machine learning,  
intelligent  
software, robotics,  
data science, data  
security, big data  
analytics, and  
signal and natural  
language  
processing.

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and Computational  
Intelligence  
(IJSSCI) Volume  
11, Issue 2  
Proceedings of the

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Advanced  
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Networking, and  
Informatics  
(ICACNI 2019)  
International  
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Computational  
Intelligence and  
Bioinformatics

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Computational  
Intelligence in  
Control

A Perspective  
from

Computational  
Intelligence

This book focuses  
on both theory and  
applications in the



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Applications  
broad areas of  
computational  
intelligence and  
machine learning.

The proceedings of  
the Seventh  
International  
Conference on  
Advanced  
Computing,  
Networking, and  
Informatics (ICACNI  
2019) present

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research papers in  
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research papers in  
the areas of  
advanced  
computing,  
networking, and  
informatics. It  
brings together  
contributions from  
scientists,  
professors, scholars,  
and students and  
presents essential  
information on the

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topic. It also discusses the practical challenges encountered and the solutions used to overcome them, the goal being to promote the “ translation ” of basic research into applied research and of applied research into

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practice. The works presented here also demonstrate the importance of basic scientific research in a range of fields. This book presents new knowledge and recent developments in all aspects of computational techniques,

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mathematical  
Computational  
modeling, energy  
Intelligence And  
systems, and  
Applications  
applications of  
fuzzy sets and  
intelligent  
computing. The  
book is a collection  
of best selected  
research papers  
presented at the  
Second  
International

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Conference on  
“Mathematical  
Modeling,  
Computational  
Intelligence

Techniques and  
Renewable Energy  
(MMCITRE 2021), ”  
organized by the  
Department of  
Mathematics,  
Pandit Deendayal  
Petroleum

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University, in  
Computational  
association with  
Intelligence And  
Forum for  
Applications

Interdisciplinary  
Mathematics. The  
book provides  
innovative works of  
researchers,  
academicians, and  
students in the area  
of interdisciplinary  
mathematics,  
statistics,

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Journal Of  
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Applications  
computational  
intelligence, and  
renewable energy.

Computer vision is  
the science and  
technology of  
making machines  
that see. It is  
concerned with the  
theory, design and  
implementation of  
algorithms that can  
automatically



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Applications  
process visual data  
to recognize  
objects, track and  
recover their shape  
and spatial layout.

The International  
Computer Vision  
Summer School -  
ICVSS was  
established in 2007  
to provide both an  
objective and clear  
overview and an in-

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depth analysis of  
the state-of-the-art  
research in  
Computer Vision.

The courses are  
delivered by world  
renowned experts  
in the field, from  
both academia and  
industry, and cover  
both theoretical  
and practical  
aspects of real

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Computer Vision  
problems. The  
Computational  
Intelligence And  
Applications  
school is organized  
every year by

University of  
Cambridge  
(Computer Vision  
and Robotics  
Group) and  
University of  
Catania (Image  
Processing Lab).

Different topics are

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covered each year.

A summary of the  
past Computational  
Intelligence And  
Applications

Vision Summer  
Schools can be

found at: <http://www.dmi.unict.it/icvss>

This edited volume  
contains a selection  
of articles covering  
some of the talks  
and tutorials held  
during the last

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Computational  
Intelligence And  
Applications  
editions of the  
school. The  
chapters provide an  
in-depth overview  
of challenging areas  
with key references  
to the existing  
literature.

Theoretical  
Foundations and  
Applications  
Paradigms in  
Biomedical

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Computational  
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Healthcare  
Informatics  
Computational  
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Biomedical  
Engineering and  
Healthcare helps  
readers analyze  
and conduct  
advanced  
research in  
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oncology,  
genomics and  
genetic data,  
ontologies  
construction, bio-  
memetic systems,  
biomedical  
electronics, protein  
structure



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prediction, and  
biomedical data  
analysis. The book  
provides the  
reader with a  
comprehensive  
guide to advanced  
computational  
intelligence,  
spanning deep  
learning, fuzzy  
logic, connectionist

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systems,  
evolutionary  
computation,  
cellular automata,  
self-organizing  
systems, soft  
computing, and  
hybrid intelligent  
systems in  
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Sections focus on important biomedical engineering applications, including biosensors, enzyme immobilization techniques, immuno-assays, and nanomaterials

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for biosensors and other biomedical techniques. Other sections cover

gene-based solutions and applications

through computational intelligence

techniques and the impact of nonlinear

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a comprehensive

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covers an

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online content to  
expand and  
support primary  
learning objectives  
"This book  
identifies the  
economic as well

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as financial problems that may be solved efficiently with computational methods and explains why those problems should best be solved with computational methods"--Provided by publisher.



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Using the same strategy for the needs of image processing and pattern recognition, scientists and researchers have turned to computational intelligence for better research

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towards

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engineering,  
science, business  
and financial  
applications.

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Business  
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discusses the  
computation  
intelligence  
approaches,  
initiatives and  
applications in the  
engineering,  
science and  
business fields.  
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aims to highlight computational intelligence as no longer limited to computing-related disciplines and can be applied to any effort which handles complex and meaningful information.

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aspects of the  
current  
research on  
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technologies,  
such as neural  
networks,  
support vector  
machines,  
fuzzy logic  
and  
evolutionary



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computation,  
while also  
covering a  
wide range of  
applications  
and  
implementation  
issues, from  
pattern  
recognition  
and system  
modeling, to

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problems and  
biomedical

applications.  
The book also  
explores the  
most widely  
used  
applications  
of hybrid  
computation as

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well as the  
history of  
their  
development.

Each  
individual  
methodology  
provides  
hybrid systems  
with  
complementary  
reasoning and

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searching  
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methods which  
allow the use  
of domain

knowledge and  
empirical data  
to solve  
complex  
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pattern mining

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in biomedical

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Challenges  
provides  
insights into  
the current

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strength and  
weaknesses of  
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and research  
findings on  
computational  
intelligence  
in cancer  
research. The  
book improves  
the exchange



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of ideas and  
coherence  
among various  
computational  
intelligence  
methods and  
enhances the  
relevance and  
exploitation  
of application  
areas for both  
experienced

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and novice end-users. Topics discussed include neural networks, fuzzy logic, connectionist systems, genetic algorithms, evolutionary computation,

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cellular  
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automata, self-organizing systems, soft computing, fuzzy systems, and hybrid intelligent systems. The book's chapters are written by

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international  
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experts from  
Intelligence And  
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both cancer  
research,

oncology and  
computational  
sides to cover  
different  
aspects and  
make it  
comprehensible  
for readers

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about advanced  
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intelligence,  
spanning the  
areas of  
neural

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networks,  
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fuzzy logic,  
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genetic  
algorithms,  
evolutionary  
computation,  
cellular  
automata, self-  
organizing  
systems, soft

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computing,  
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and hybrid  
intelligent  
systems in  
diagnosing  
cancer  
diseases  
Discusses  
several cancer  
types,  
including

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their  
detection,  
treatment and  
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studies that  
illustrate the  
applications  
of intelligent  
computing in  
data analysis  
to help



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to some of the cutting  
edge technological  
paradigms under the  
umbrella of  
computational  
intelligence.

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*Computational intelligence schemes are investigated with the development of a suitable framework for fuzzy logic, neural networks and evolutionary computing, neuro-fuzzy systems, evolutionary-fuzzy systems and evolutionary neural*

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*systems. Applications  
to linear and non-*

*linear systems And*

*arediscussed with*

*examples. Key*

*features: Covers all*

*the aspects of fuzzy,*

*neural and evolutionar*

*yapproaches with*

*worked out examples,*

*MATLAB® exercises*

*andapplications in*

*each chapter Presents*

*the synergies of*

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Such as evolutionary

fuzzy neural fuzzy

and evolutionary

neural systems

Considers real world

problems in the

domain of

systems modelling,

control and

optimization Contains

a foreword written by

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both the theory and

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*development of big data architecture, big data modeling, big data as a service, big data analytics, and more Discusses big data applications for intelligent healthcare management, such as revenue management and pricing, predictive analytics/forecasting, big data integration for medical data,*

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algorithms and  
techniques, etc.

Covers the  
development of big  
data tools, such as  
data, web and text  
mining, data mining,  
optimization, machine  
learning, cloud in big  
data with Hadoop, big  
data in IoT, and more  
This book presents  
the proceedings of the  
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together work by  
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intelligence. The work  
is mainly composed of  
the original and

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unpublished results of  
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constructive, And  
empirical, Applications  
experimental, or  
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computational  
intelligence.  
Specifically, the major  
topics covered include  
classical  
computational  
intelligence models

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networks and deep  
learning, evolutionary  
swarm and particle  
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interaction,  
computational  
intelligence for web  
analytics, robotics,*



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*Computer Vision*

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papers presented at  
the International Joint  
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Jahangirnagar  
University (JU),  
Bangladesh; and South  
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(SAU), India. These  
proceedings present  
novel contributions in  
the areas of  
computational  
intelligence, and offer

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technologies,  
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classification  
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and fuzzy set theory,  
evolutionary**

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image processing,  
combinatorial pattern  
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network analysis,  
audio and video data  
analysis, data mining  
in dynamic  
environments,  
bioinformatics, hybrid  
computing, big data  
analytics and deep**

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**learning. It also  
provides innovative  
solutions to the  
challenges in these  
areas and discusses  
recent developments.  
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Intelligence in Cancer  
Diagnosis: Progress  
and Challenges  
provides an insight  
into current strength  
and weaknesses of  
different applications**



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**as well as research findings on computational intelligence in cancer research. It improves the exchange of ideas and coherence among various computational intelligence methods and enhances the relevance and exploitation of application areas for both experienced and**

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**The chapters are**

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**written by  
international experts  
from both cancer  
research/oncology and  
computational sides to  
cover different aspects  
to make it  
comprehensible even  
by readers with no  
background on  
informatics. It is a  
valuable source for  
cancer researchers,  
oncologists and**

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members of  
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**members of  
biomedical fields who  
are interested in  
learning about new  
technologies to  
improve the accuracy  
of cancer diagnosis.**

**Contains updated  
information about  
advanced  
computational  
intelligence spanning  
the areas of neural  
networks, fuzzy logic,**

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genetic algorithms,  
evolutionary  
computation, cellular  
automata, self-  
organizing systems,  
soft computing, fuzzy  
systems, and hybrid  
intelligent systems in  
diagnosing cancer  
diseases Discusses  
several cancer types  
with their detection,  
treatment and**

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case studies**

**illustrating the  
applications of**

**intelligent computing  
in data analysis to help  
readers to analyze and  
advance their research  
in cancer**

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**"This book  
provides  
information  
regarding state-of-  
the-art research**

**outcomes and cutting-edge technology on various aspects of the human movement"--Provided by publisher.**

**AI techniques are being successfully used in the fields of health to increase the efficacy of**



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the risks of false  
diagnosis,  
therapeutic  
decision-making,  
and outcome  
prediction in many  
clinical cases,  
thanks to the rapid  
advancement of  
technology. The  
acquisition,**

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**analysis, and  
application of a  
vast amount of  
information**

**required to solve  
complex problems  
is a challenge for  
modern health  
therapies. The 21  
chapters in this  
integrate several  
aspects of**

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intelligence like  
machine learning  
and deep learning  
from diversified  
perspectives. The  
purpose of the  
book is to endow to  
different  
communities with  
their innovative  
advances in theory,**

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approaches,  
numerical  
simulation,  
statistical analysis,  
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deployment, case  
studies, analytical  
results,  
computational  
structuring and  
significance**

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applications.**  
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