

Bookmark File  
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## **Socpros 2015**

This volume  
contains 74 papers  
presented at SCI  
2016: First  
International  
Conference on  
Smart Computing  
and Informatics. The  
conference was  
held during 3-4  
March 2017,

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## PDF Socpros 2015

Visakhapatnam,  
India and organized  
communally by  
ANITS,  
Visakhapatnam and  
supported  
technically by CSI  
Division V –  
Education and  
Research and PRF,  
Vizag. This volume  
contains papers  
mainly focused on

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## PDF Socpros 2015

applications of advanced intelligent techniques to video processing, medical imaging, machine learning, sensor technologies, and network security.

The present book is based on the research papers presented in the International

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Conference on Soft Computing for Problem Solving (SocProS 2012), held at JK Lakshmipat University, Jaipur, India. This book provides the latest developments in the area of soft computing and covers a variety of

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topics, including mathematical modeling, image processing, optimization, swarm intelligence, evolutionary algorithms, fuzzy logic, neural networks, forecasting, data mining, etc. The objective of the

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## PDF Socpros 2015

book is to familiarize the reader with the latest scientific developments that are taking place in various fields and the latest sophisticated problem solving tools that are being developed to deal with the complex and intricate

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problems that are otherwise difficult to solve by the usual and traditional methods. The book is directed to the researchers and scientists engaged in various fields of Science and Technology. This two-volume book presents

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## PDF Socpros 2015

outcomes of the 7th International Conference on Soft Computing for Problem Solving, SocProS 2017. This conference is a joint technical collaboration between the Soft Computing Research Society, Liverpool Hope

# Bookmark File

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University (UK), the Indian Institute of Technology Roorkee, the South Asian University New Delhi and the National Institute of Technology Silchar, and brings together researchers, engineers and practitioners to discuss thought-

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provoking developments and challenges in order to select potential future directions The book presents the latest advances and innovations in the interdisciplinary areas of soft computing, including original research papers in the areas

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including, but not limited to, algorithms (artificial immune systems, artificial neural networks, genetic algorithms, genetic programming, and particle swarm optimization) and applications (control systems, data mining and

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clustering, finance, weather forecasting, game theory, business and forecasting applications). It is a valuable resource for both young and experienced researchers dealing with complex and intricate real-world problems for which

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## PDF Socpros 2015

finding a solution by traditional methods is a difficult task.

Based on the careful analysis of several hundred publications, this book uniformly describes basic methods of analysis and critical results of the theory of retrial queues. Chapters

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discuss: analysis of single-server retrieval queues, including stationary and transient distribution of the number in the system, busy period, waiting time process, limit theorems, stochastic inequalities, traffic measurement

# Bookmark File

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multiserver retrial  
queues - ergodicity,  
explicit formulas,  
algorithmic  
solutions, limit  
theorems,  
approximations  
advanced single-  
server and  
multiserver retrial  
queues - models  
with priority  
subscribers, non-

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ersistent  
subscribers, finite  
source queues  
Lecturers,  
researchers, and  
students in  
probability,  
statistics, operations  
research,  
telecommunications,  
and computer  
systems modeling  
analysis will find

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Retrial Queues to be an invaluable resource.

The book focuses on soft computing and its applications to solve real-world problems occurring in different domains ranging from medicine and healthcare, and supply chain

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management to  
image processing  
and cryptanalysis. It  
includes high-quality  
papers presented in  
the International  
Conference on Soft  
Computing:  
Theories and  
Applications  
(SoCTA 2017),  
organized by  
Bundelkhand

## Bookmark File PDF Socpros 2015

University, Jhansi, India. Offering significant insights into soft computing for teachers and researchers alike, the book inspires more researchers to work in the field of soft computing. “Neutrosophic Sets and Systems” has been created for

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publications on  
advanced studies in  
neutrosophy,  
neutrosophic set,  
neutrosophic logic,  
neutrosophic  
probability,  
neutrosophic  
statistics that started  
in 1995 and their  
applications in any  
field, such as the  
neutrosophic

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structures  
developed in  
algebra, geometry,  
topology, etc.

[Proceedings of  
SoCTA 2019  
Proceedings of the  
Second  
International  
Conference on Soft  
Computing for  
Problem Solving  
\(SocProS 2012\).](#)

# Bookmark File PDF Socpros 2015

[December 28-30,  
2012](#)  
[Computational  
Network Application  
Tools for  
Performance  
Management  
Proceedings of  
Fourth International  
Conference INDIA  
2017](#)  
[Proceedings of Fifth  
International](#)

# Bookmark File PDF Socpros 2015

[Conference on Soft Computing for Problem Solving Mining Intelligence and Knowledge Exploration](#)  
[The Blue Book of Optometrists](#)  
[Single-valued neutrosophic N-soft set and](#)  
[intertemporal single-valued neutrosophic](#)

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## PDF Socpros 2015

[N-soft set to assess and pre-assess the mental health of students amidst COVID-19](#)

[SocProS 2013](#)

[SocProS 2014](#)

[18th EPIA](#)

[Conference on Artificial Intelligence, EPIA 2017, Porto, Portugal, September 5-8,](#)

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[2017, Proceedings](#)

**The growing presence of biologically-inspired processing has caused significant changes in data retrieval. With the ubiquity of these technologies, more effective**

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**and streamlined  
data processing  
techniques are  
available. Bio-  
Inspired  
Computing for  
Information  
Retrieval  
Applications is a  
key resource on  
the latest  
advances and  
research**

Bookmark File  
PDF Socpros 2015

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

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

Bookmark File  
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**presents the  
state-of-the-art  
techniques and  
recent research  
progress on Ear  
Biometrics.  
Among the  
various  
physiological  
traits, the  
reasons for the  
ear to gain much  
attention in**

# Bookmark File

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**recent years are many folds. It has been found to be a reliable biometrics for human verification and identification. Ears are remarkably consistent and unlike face, it does not change**

# Bookmark File

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**shape with  
different  
expressions or  
age, and remain  
fixed in the  
middle of the  
side of the head  
against a  
predictable  
background. The  
book contains  
figures, tables  
and plots to**

Bookmark File  
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**illustrate the techniques in an easy and lucid manner. The book also provides an extensive literature on the subject, where readers have the benefit of receiving all the relevant material**

Bookmark File  
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**at one place in a  
very  
comprehensive  
manner. This  
book caters  
students,  
academics,  
researchers,  
practitioners who  
are interested in  
the field of Ear  
Biometrics and  
its applications in**

Bookmark File  
PDF Socpros 2015

**face recognition  
and security.**

**Wireless sensor  
networks have  
gained significant  
attention  
industrially and  
academically due  
to their wide  
range of uses in  
various fields.**

## Bookmark File PDF Socpros 2015

**Because of their vast amount of applications, wireless sensor networks are vulnerable to a variety of security attacks. The protection of wireless sensor networks remains a challenge due to their resource-**

# Bookmark File PDF Socpros 2015

**constrained  
nature, which is  
why researchers  
have begun  
applying several  
branches of  
artificial  
intelligence to  
advance the  
security of these  
networks.  
Research is  
needed on the**

Bookmark File  
PDF Socpros 2015

**development of  
security practices  
in wireless sensor  
networks by  
using smart  
technologies.**

**Deep Learning  
Strategies for  
Security  
Enhancement in  
Wireless Sensor  
Networks**

*Page 37/139*

Bookmark File  
PDF Socpros 2015

**provides  
emerging  
research  
exploring the  
theoretical and  
practical  
advancements of  
security protocols  
in wireless sensor  
networks using  
artificial  
intelligence-  
based**

Bookmark File  
PDF Socpros 2015

**techniques.  
Featuring  
coverage on a  
broad range of  
topics such as  
clustering  
protocols,  
intrusion  
detection, and  
energy  
harvesting, this  
book is ideally  
designed for**

# Bookmark File PDF Socpros 2015

**researchers,  
developers, IT  
professionals,  
educators,  
policymakers,  
practitioners,  
scientists,  
theorists,  
engineers,  
academicians,  
and students  
seeking current  
research on**

Bookmark File  
PDF Socpros 2015

**integrating  
intelligent  
techniques into  
sensor networks  
for more reliable  
security  
practices.**

**The volume  
presents high  
quality research  
papers presented  
at Second**

Bookmark File  
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**International  
Conference on  
Information and  
Communication  
Technology for  
Intelligent  
Systems (ICICC  
2017). The  
conference was  
held during 2-4  
August 2017,  
Pune, India and  
organized**

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**communally by  
Dr. Vishwanath  
Karad MIT World  
Peace University,  
Pune, India at  
MIT College of  
Engineering,  
Pune and  
supported by All  
India Council for  
Technical  
Education (AICTE)  
and Council of**

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**Scientific and  
Industrial  
Research (CSIR).  
The volume  
contains research  
papers focused  
on ICT for  
intelligent  
computation,  
communications  
and audio, and  
video data  
processing.**

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**This volume  
contains 68  
papers presented  
at SCI 2016: First  
International  
Conference on  
Smart Computing  
and Informatics.  
The conference  
was held during  
3-4 March 2017,  
Visakhapatnam,  
India and**

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**organized  
communally by  
ANITS,  
Visakhapatnam  
and supported  
technically by CSI  
Division V -  
Education and  
Research and  
PRF, Vizag. This  
volume contains  
papers mainly  
focused on smart**

# Bookmark File PDF Socpros 2015

**computing for  
cloud storage,  
data mining and  
software  
analysis, and  
image  
processing.  
Stress binds  
everyone as we  
face uncertainty  
in our lives. So, it  
is notable that  
we experience**

Bookmark File  
PDF Socpros 2015

**anxiety during  
this coronavirus  
disease (COV ID –  
19) pandemic  
context. When we  
try to handle  
stress for longer  
duration leads to  
chronic, and it  
can affect both  
physical and  
mental health.  
The scientific**

Bookmark File  
PDF Socpros 2015

**techniques to precisely pre-assess or assess mental health disorders are hardly available for the students. This paper intends to provide an explication to pre-assess or assess the mental health**

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PDF Socpros 2015

**of the students  
amidst this  
pandemic. We  
present the  
notions of single-  
valued  
neutrosophic N-  
soft set (SV  
NNSS) and the  
quasi-hyperbolic  
discounting  
intertemporal  
single-valued**

Bookmark File  
PDF Socpros 2015

**neutrosophic N-soft set (QHDISV NNSS) to show the mental condition of the students.**

**[Proceedings of International Conference on Trends in Computational and Cognitive Engineering](#)**

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**Soft Computing  
for Problem  
Solving  
Proceedings of  
the International  
Conference on  
Communication  
and Computing  
Systems (ICCCS  
2016), Gurgaon,  
India, 9-11  
September, 2016  
Smart Computing**

Bookmark File  
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**and Informatics**  
**Proceedings of**  
**SocProS 2019,**  
**Volume 2**  
**Third**  
**International**  
**Conference, MIKE**  
**2015, Hyderabad,**  
**India, December**  
**9-11, 2015,**  
**Proceedings**  
**Handbook of**  
**Research on Soft**

Bookmark File  
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**Computing and  
Nature-Inspired  
Algorithms  
Harmony Search  
Algorithm  
Proceedings of  
2nd International  
Conference, ICICC  
2017  
Soft Computing:  
Theories and  
Applications  
Intelligent**

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**Computing and  
Information and  
Communication**

This book  
constitutes the  
refereed  
proceedings of the  
18th EPIA  
Conference on  
Artificial Intelligence,  
EPIA 2017, held in  
Porto, Portugal, in  
September 2017.

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The 69 revised full papers and 2 short papers presented were carefully reviewed and selected from a total of 177 submissions. The papers are organized in 16 tracks devoted to the following topics:  
agent-based  
modelling for

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criminological  
research  
(ABM4Crime),  
artificial intelligence  
in cyber-physical  
and distributed  
embedded systems  
(AICPDES), artificial  
intelligence in  
games (AIG),  
artificial intelligence  
in medicine (AIM),  
artificial intelligence

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in power and energy systems (AIPES), artificial intelligence in transportation systems (AITS), artificial life and evolutionary algorithms (ALEA), ambient intelligence and affective environments (AmIA), business applications of

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artificial intelligence  
(BAAI), intelligent  
robotics (IROBOT),  
knowledge  
discovery and  
business  
intelligence (KDBI),  
knowledge  
representation and  
reasoning (KRR),  
multi-agent  
systems: theory and  
applications

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(MASTA), software engineering for autonomous and intelligent systems (SE4AIS), social simulation and modelling (SSM), and text mining and applications (TeMA).

This book focuses on soft computing and how it can be

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applied to solve real-world problems arising in various domains, ranging from medicine and healthcare, to supply chain management, image processing and cryptanalysis. It gathers high-quality papers presented at the International

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Conference on Soft Computing: Theories and Applications (SoCTA 2019), organized by the National Institute of Technology Patna, India. Offering valuable insights into soft computing for teachers and researchers alike,

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the book will inspire further research in this dynamic field.

The book titled 'Optimization Techniques' is based on optimization techniques and O.R. related courses for undergraduate and postgraduate engineering and

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mathematics  
students of various  
universities as well  
as for researchers  
working on  
optimization  
problems. The main  
objective of the  
book is to acquaint  
and familiarize the  
readers with  
different types of  
optimization

# Bookmark File

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techniques, solving optimization problems, implementing computational techniques, abstracting mathematical results and proofs etc. The book gives a clear appreciation and good grasp over most of the

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currently available optimization techniques. Each method developed has been illustrated with solved examples. A set of exercises for self practice is given at the end of each chapter. A set of brief answer review questions relating to

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the finer detail of the topics discussed in each chapter preceding the set of exercises has been added to facilitate learning and enhance the value of the book.

### CONTENTS:

Introduction

Classical

Optimization

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## PDF Socpros 2015

Techniques Linear  
Programming  
Duality Theory and  
Post Optimality  
Analysis  
Transportation  
Problem and Its  
Variants Network  
Models Sequencing  
and Scheduling  
Problems Non-linear  
Programming: Kuhn-  
Tucker Theory

# Bookmark File

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Special Classes of  
Non-linear  
Optimization  
Problems Solution  
of Unconstrained  
Non-linear  
Optimization  
Problems Solution  
of Constrained Non-  
linear Optimization  
Problems Integer  
Programming  
Dynamic

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Programming  
Decision Theory  
Theory of Games  
Multiobjective and  
Goal Programming  
Heuristics Based  
Optimization  
Techniques  
The book is a  
collection of high-  
quality peer-  
reviewed research  
papers presented at

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International  
Conference on  
Information System  
Design and  
Intelligent  
Applications (INDIA  
2017) held at Duy  
Tan University, Da  
Nang, Vietnam  
during 15-17 June  
2017. The book  
covers a wide range  
of topics of

# Bookmark File PDF Socpros 2015

computer science  
and information  
technology  
discipline ranging  
from image  
processing,  
database  
application, data  
mining, grid and  
cloud computing,  
bioinformatics and  
many others. The  
various intelligent

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tools like swarm intelligence, artificial intelligence, evolutionary algorithms, bio-inspired algorithms have been well applied in different domains for solving various challenging problems.

The proceedings of SocProS 2015 will

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## PDF Socpros 2015

serve as an academic bonanza for scientists and researchers working in the field of Soft Computing. This book contains theoretical as well as practical aspects using fuzzy logic, neural networks, evolutionary algorithms, swarm

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intelligence algorithms, etc., with many applications under the umbrella of 'Soft Computing'. The book will be beneficial for young as well as experienced researchers dealing across complex and intricate real world problems for which

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finding a solution by traditional methods is a difficult task.

The different application areas covered in the proceedings are:  
Image Processing,  
Cryptanalysis,  
Industrial  
Optimization,  
Supply Chain  
Management, Newly

# Bookmark File

## PDF Socpros 2015

Proposed Nature  
Inspired Algorithms,  
Signal Processing,  
Problems related to  
Medical and Health  
Care, Networking  
Optimization  
Problems, etc.

The book focuses  
on soft computing  
and its applications  
to solve real-world  
problems in different

# Bookmark File

## PDF Socpros 2015

domains, ranging from medicine and health care, to supply chain management, image processing and cryptanalysis. It includes high-quality papers presented at the International Conference on Soft Computing:  
Theories and

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Applications  
(SoCTA 2018),  
organized by Dr. B.  
R. Ambedkar  
National Institute of  
Technology,  
Jalandhar, Punjab,  
India. Offering  
significant insights  
into soft computing  
for teachers and  
researchers alike,  
the book inspires

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more researchers to work in the field of soft computing.

[Deep Learning Strategies for Security Enhancement in Wireless Sensor Networks](#)  
[Proceedings of the Third International Conference on Soft Computing for](#)

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[Problem Solving  
Information Systems  
Design and  
Intelligent  
Applications  
Proceedings of the  
2nd International  
Conference on  
Harmony Search  
Algorithm  
\(ICHSA2015\)  
Localization and  
Recognition](#)

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[Proceedings of  
SocProS 2020,  
Volume 1  
Communication and  
Computing Systems  
Proceedings of  
ICACIE 2017  
Proceedings of  
SoCTA 2017  
Congress on  
Intelligent Systems  
Proceedings of  
Fourth International](#)

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[Conference on Soft  
Computing for  
Problem Solving](#)

**The Proceedings of  
SocProS 2014 serves  
as an academic  
bonanza for  
scientists and  
researchers working  
in the field of Soft  
Computing. This  
book contains  
theoretical as well as**

# Bookmark File PDF Socpros 2015

**practical aspects  
using fuzzy logic,  
neural networks,  
evolutionary  
algorithms, swarm  
intelligence  
algorithms, etc., with  
many applications  
under the umbrella  
of ‘Soft Computing’.  
The book is  
beneficial for young  
as well as**

# Bookmark File PDF Socpros 2015

**experienced  
researchers dealing  
across complex and  
intricate real world  
problems for which  
finding a solution by  
traditional methods  
is a difficult task.**

**The different  
application areas  
covered in the  
Proceedings are:  
Image Processing,**

Bookmark File  
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**Cryptanalysis,  
Industrial  
Optimization, Supply  
Chain Management,  
Newly Proposed  
Nature Inspired  
Algorithms, Signal  
Processing, Problems  
related to Medical  
and Healthcare,  
Networking  
Optimization  
Problems, etc.**

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**The proceedings of SocProS 2013 serve as an academic bonanza for scientists and researchers working in the field of Soft Computing. This book contains theoretical as well as practical aspects of Soft Computing, an umbrella term for**

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**techniques like fuzzy logic, neural networks and evolutionary algorithms, swarm intelligence algorithms etc. This book will be beneficial for the young as well as experienced researchers dealing with complex and**

# Bookmark File PDF Socpros 2015

**intricate real world problems for which finding a solution by traditional methods is very difficult. The different areas covered in the proceedings are:  
Image Processing,  
Cryptanalysis,  
Supply Chain  
Management, Newly  
Proposed Nature**

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**Inspired Algorithms,  
Optimization,  
Problems related to  
Medical and Health  
Care, Networking  
etc.**

**The book gathers  
high-quality research  
papers presented at  
the International  
Conference on  
Advanced  
Computing and**

# Bookmark File PDF Socpros 2015

**Intelligent  
Engineering  
(ICACIE 2017). It  
includes technical  
sections describing  
progress in the fields  
of advanced  
computing and  
intelligent  
engineering, and is  
primarily intended  
for postgraduate  
students and**

# Bookmark File PDF Socpros 2015

**researchers working  
in Computer Science  
and Engineering.**

**However,**

**researchers working  
in Electronics will  
also find the book**

**useful, as it**

**addresses hardware  
technologies and  
next-gen**

**communication  
technologies.**

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**This two-volume book presents the outcomes of the 8th International Conference on Soft Computing for Problem Solving, SocProS 2018. This conference was a joint technical collaboration between the Soft Computing Research**

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**Society, Liverpool  
Hope University  
(UK), and Vellore  
Institute of  
Technology (India),  
and brought together  
researchers,  
engineers and  
practitioners to  
discuss thought-  
provoking  
developments and  
challenges in order**

# Bookmark File PDF Socpros 2015

**to select potential  
future directions.  
The book highlights  
the latest advances  
and innovations in  
the interdisciplinary  
areas of soft  
computing, including  
original research  
papers on algorithms  
(artificial immune  
systems, artificial  
neural networks,**

# Bookmark File PDF Socpros 2015

**genetic algorithms,  
genetic  
programming, and  
particle swarm  
optimization) and  
applications (control  
systems, data mining  
and clustering,  
finance, weather  
forecasting, game  
theory, business and  
forecasting  
applications). It**

# Bookmark File PDF Socpros 2015

**offers a valuable resource for both young and experienced researchers dealing with complex and intricate real-world problems that are difficult to solve using traditional methods.**

**Soft computing and nature-inspired**

# Bookmark File

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**computing both play a significant role in developing a better understanding to machine learning.**

**When studied together, they can offer new**

**perspectives on the learning process of machines. The**

**Handbook of Research on Soft**

# Bookmark File PDF Socpros 2015

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

# Bookmark File PDF Socpros 2015

**of topics and perspectives such as swarm intelligence, speech recognition, and electromagnetic problem solving, this publication is ideally designed for students, researchers, scholars, professionals, and practitioners seeking**

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**current research on  
the advanced  
workings of  
intelligence in  
computing systems.  
The Harmony  
Search Algorithm  
(HSA) is one of the  
most well-known  
techniques in the  
field of soft  
computing, an  
important paradigm**

# Bookmark File PDF Socpros 2015

**in the science and  
engineering  
community. This  
volume, the  
proceedings of the  
2nd International  
Conference on  
Harmony Search  
Algorithm 2015  
(ICHSA 2015),  
brings together  
contributions  
describing the latest**

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**developments in the field of soft computing with a special focus on HSA techniques. It includes coverage of new methods that have potentially immense application in various fields. Contributed articles cover aspects of the following topics**

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**related to the  
Harmony Search  
Algorithm:  
analytical studies;  
improved, hybrid  
and multi-objective  
variants; parameter  
tuning; and large-  
scale applications.  
The book also  
contains papers  
discussing recent  
advances on the**

# Bookmark File

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**following topics:  
genetic algorithms;  
evolutionary  
strategies; the firefly  
algorithm and  
cuckoo search;  
particle swarm  
optimization and ant  
colony optimization;  
simulated annealing;  
and local search  
techniques. This  
book offers a**

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