Springer Link



Book | © 2022

1417 Accesses**2** Citations**1** Altmetric

Intelligent Technologies: Concepts, Applications, and Future Directions

Editors: Satya Ranjan Dash, Manas Ranjan Lenka, Kuan-Ching Li, Esaú Villatoro-Tello

Serves as a reference for researchers and practitioners in academia and industry

Part of the book series: Studies in Computational Intelligence (SCI, volume 1028)

Discusses automated computing systems which are mostly powered by intelligent technologies

Includes chapters which are extended version of research works presented at first Ph.D. Research

<u>Home</u> > Book

Symposium

Access via your institut	ion ->
▶ eBook	EUR 128.39 Price includes VAT (India
 ISBN: 978-981-19-1021-0 Instant PDF download Readable on all devices Own it forever Exclusive offer for individ Tax calculation will be fin 	uals only
Buy	eBook
> Hardcover Book	EUR 159.99
Learn about institutional subs	<u>criptions</u>

Sections

- Table of contents
 About this book
- <u>Keywords</u>
- Editors and Affiliations About the editors
- Bibliographic Information

This is a preview of subscription content, access via your institution.

earch within book	
ront Matter	PDF
ages i-xiii	
Design of Efficient Algorithms for Mobile Charging in Wireless S Networks	<u>Sensor</u>

Parama Bagchi, Debotosh Bhattacharjee, Mita Nasipuri Pages 29-56

<u>Classifying the Social Media Author Profile Through a Multimodal</u>

<u>Representation</u>

Miguel Á. Álvarez-Carmona, Esaú Villatoro-Tello, Luis Villaseñor-Pineda, Manuel Montes-y-Gómez Pages 57-81

An Investigation into Effective Fault Localization

Arpita Dutta, Pabitra Mitra, Rajib Mall Pages 83-112

Dependability Analysis for Transaction Processing in On-Demand Computing System

Dharmendra Prasad Mahato, Ravi Shankar Singh Pages 113-128

Investigating and Devising Privacy Preserving Approaches for Location-Based Services

Ruchika Gupta, Udai Pratap Rao Pages 129-148

Design of Intelligent Scheduling Algorithms for Cloud Computing

Kaushik Mishra, Santosh Kumar Majhi Pages 149-175

Studies in Algorithms and Architectures for Sample Preparation with Digital

Microfluidics

Nilina Bera Pages 177-199

Application of Soft Computing Techniques in Database Intrusion Detection

Anitarani Brahma, Suvasini Panigrahi Pages 201-221

Design and Applications of Improved Metaheuristic Algorithms for Neural Network Training

Nibedan Panda, Santosh Kumar Majhi Pages 223-255

Self-organized and Self-sustainable Autoscaling for Scientific Workflow Application in Cloud Environment

Monika Kumari, K. K. Senapati, G. Sahoo Pages 257-280

Development of Fuzzy-Based Methodologies for Decision-Making Problem

Avijit De, Samarjit Kar, Sujit Das Pages 281-312

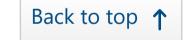
Density-Based Mining Algorithms for Dynamic Data: An Incremental Approach

Panthadeep Bhattacharjee, Pinaki Mitra Pages 313-335

Back to top **↑**

About this book

This book discusses automated computing systems which are mostly powered by intelligent technologies like artificial intelligence, machine learning, image recognition, speech processing, cloud computing, etc., to perform complex automated tasks which are not possible by traditional computing systems. The chapters are extended version of research works presented at first Ph.D. Research Symposium in various advanced technologies used in the field of computer science. This book provides an opportunity for the researchers to get ideas regarding the ongoing works that help them in formulating problems of their interest. The academicians can also be benefited to know about the current research trends that smooth the way to guide their students to carry out research work in the proper direction. The industry people will be also facilitated to know about the current advances in research work and materialize the research work into industrial applications.



Keywords
Intlligent Technology Machine Learning and Artificial Intelligence
Big Data Analysis Speech Processing Wireless Sensor Network
Security and Cryptography Cloud Computing
Back to top 1

Editors and Affiliations

School of Computer Applications, KIIT Deemed to be University, Bhubaneswar, India

Satya Ranjan Dash

School of Computer Engineering, KIIT Deemed to be University, Bhubaneswar, India

Manas Ranjan Lenka

Department of Computer Science and Information Engineering, Providence University, Taichung, Taiwan

Kuan-Ching Li

Department of Information Technologies, Universidad Autónoma Metropolitana, Unidad Cuajimalpa, Mexico City, Mexico Esaú Villatoro-Tello

Back to top 1

About the editors

Satya Ranjan Dash is currently working as an associate professor at KIIT University, India. His current research includes epileptic seizure detection based on EEG signal through spiking neural network (SNN), classification of schizophrenia patients from EEG and fMRI using SNN and SSN, fetal heart rate signals classification through extreme learning machine (ELM), mammogram analysis with local binary pattern (LBP), and generative adversarial network (GAN) model.

Manas Ranjan Lenka is working as an assistant professor in KIIT University and has around 17 years of experience, out of which 9 years of industry experience in telecom software developments and 8 years of teaching experience. His current research topic is wireless sensor networks.

Kuan-Ching Li is currently a professor in the Department of Computer Science and Information

Engineering at the Providence University, Taiwan. Dr. Li is the editor-in-chief of technical publications in International Journal of Computational Science and Engineering (IJCSE), International Journal of Embedded Systems (IJES), and International Journal of High Performance Computing and Networking (IJHPCN), all published by Interscience, also serving a number of journal's editorial boards and guest editorship. His topics of interest include networked computing, GPU computing, parallel software design, and performance evaluation and benchmarking. Dr. Li is a fellow of the IET and a senior member of the IEEE.

Esaú Villatoro Tello is currently a full-time professor–researcher at the Universidad Autónoma Metropolitana Unidad Cuajimalpa (UAM-C) in Mexico City. From September 2019 to date, he is a visiting professor at Idiap Research Institute, in Martigny, Switzerland. His main research interests are associated with natural language processing (NLP) and computational linguistics topics, specifically he has done research on the topics of authorship analysis and authorship attribution, thematic and non-thematic text classification, plagiarism detection, information retrieval, and NLP applied in psycholinguistics for mental health support.

Back to top **↑**

Book Title	Editors	Series Title
Intelligent Technologies:	Satya Ranjan Dash, Manas	Studies in Computational
Concepts, Applications, and	Ranjan Lenka, Kuan-Ching Li,	Intelligence
Future Directions	Esaú Villatoro-Tello	
DOI https://doi.org/10.1007/978- 981-19-1021-0	Publisher	eBook Packages
	Springer Singapore	Intelligent Technologies and
		<u>Robotics</u> , <u>Intelligent</u>
		Technologies and Robotics (R0)
Copyright Information	Hardcover ISBN	Softcover ISBN
The Editor(s) (if applicable) and	978-981-19-1020-3	978-981-19-1023-4
The Author(s), under exclusive license to Springer Nature Singapore Pte Ltd. 2022	Published: 22 May 2022	Due: 05 June 2023
eBook ISBN	Series ISSN	Series E-ISSN
978-981-19-1021-0	1860-949X	1860-9503
Published: 21 May 2022		
Edition Number 1	Number of Pages	Number of Illustrations
	XIII, 335	44 b/w illustrations, 112
		illustrations in colour
Topics		
Computational Intelligence,		
Artificial Intelligence, Data		
<u>Analysis and Big Data</u> , <u>Cloud</u>		
<u>Computing</u> , <u>Wireless and Mobile</u> Communication		

Over 10 million scientific documents at your fingertips

Academic Edition Corporate Edition

HomeImpressumLegal informationPrivacy statementCalifornia Privacy StatementHow we use cookiesManage cookies/Do not sell my dataAccessibilityFAQContact usAffiliate program

Not logged in - 106.203.249.201 Not affiliated **SPRINGER NATURE**

© 2023 Springer Nature Switzerland AG. Part of <u>Springer Nature</u>.