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Research Anthology on Machine Learning Techniques, Methods, and Applications
Advances in Condition Monitoring of Machinery in Non-Stationary Operations
Mining goes Digital
Computing, Communication and Learning
Health Information Science
Machine Learning with SVM and Other Kernel Methods
Machine Learning Paradigms: Theory and Application
Semantic Web Technologies and Applications in Artificial Intelligence of Things
Communication, Networks and Computing
Handbook of Research on Advanced Techniques in Diagnostic Imaging and Biomedical Applications
DISEASE DETECCTION IN CROP USING IMAGE PROCESSING
Trends in Artificial Intelligence Theory and Applications. Artificial Intelligence Practices
Python Data Science Handbook
Data Classification and Incremental Clustering in Data Mining and Machine Learning

Machine Learning for Intelligent Multimedia Analytics
Recent Advances in Big Data, Machine, and Deep Learning for Precision Agriculture
Advanced Network Technologies and Intelligent Computing
Geospatial and Soft Computing Techniques
Emerging Trends in Intelligent and Interactive Systems and Applications
Pattern Analysis of the Human Connectome
Explainable Artificial Intelligence for Smart Cities
Bio-Inspired Applications of Connectionism
Techno-Societal 2020
Computational Intelligence for Oncology and Neurological Disorders
Computational Intelligence Aided Systems for Healthcare Domain
2020 6th International Conference on Advanced Computing and Communication Systems (ICACCS)
Data Science and Analytics
Neural Information Processing
Future Information Technology
Data Mining for Biomarker Discovery
Intelligent Communication Technologies and Virtual Mobile Networks
Towards the Integration of IoT, Cloud and Big Data
Data Mining Trends and Applications in Criminal Science and Investigations
Dimension Reduction
Advances in Automation, Signal Processing,

Instrumentation, and Control
Intelligent Computing
Artificial Intelligence and Soft Computing
Intelligent Decision Support Systems
RITA 2018
Soft Computing and Signal Processing

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Research Anthology on Machine Learning Techniques, Methods, and Applications Springer Nature

Thanks to rapid technological developments in terms of Computational Intelligence, smart tools have been playing active roles in daily life. It is clear that the 21st century has brought about many advantages in using high-level computation and communication solutions to deal with real-world problems; however, more technologies bring more changes to society. In this sense, the concept of smart cities has been a widely discussed topic in terms of society and Artificial Intelligence-oriented research efforts. The rise of smart cities is a transformation of both community and technology use habits, and there are many different research orientations to shape a better future. The objective of this book is to focus on Explainable Artificial Intelligence (XAI) in smart city development. As

recently designed, advanced smart systems require intense use of complex computational solutions (i.e., Deep Learning, Big Data, IoT architectures), the mechanisms of these systems become ‘black-box’ to users. As this means that there is no clear clue about what is going on within these systems, anxieties regarding ensuring trustworthy tools also rise. In recent years, attempts have been made to solve this issue with the additional use of XAI methods to improve transparency levels. This book provides a timely, global reference source about cutting-edge research efforts to ensure the XAI factor in smart city-oriented developments. The book includes both positive and negative outcomes, as well as future insights and the societal and technical aspects of XAI-based smart city research efforts. This book contains nineteen contributions beginning with a presentation of the background of XAI techniques and sustainable smart-city applications. It then continues with chapters discussing XAI for Smart Healthcare, Smart Education, Smart Transportation, Smart Environment, Smart Urbanization and Governance, and Cyber Security for Smart Cities.

Advances in Condition Monitoring of Machinery in Non-Stationary Operations

Springer Nature

The field of data mining is receiving

significant attention in today's information-rich society, where data is available from different sources and formats, in large volumes, and no longer constitutes a bottleneck for knowledge acquisition. This rich information has paved the way for novel areas of research, particularly in the crime data analysis realm. Data Mining Trends and Applications in Criminal Science and Investigations presents scientific concepts and frameworks of data mining and analytics implementation and uses across various domains, such as public safety, criminal investigations, intrusion detection, crime scene analysis, and suspect modeling. Exploring the diverse ways that data is revolutionizing the field of criminal science, this publication meets the research needs of law enforcement professionals, data analysts, investigators, researchers, and graduate-level students.

Mining goes Digital

Springer

The book focuses on machine learning. Divided into three parts, the first part discusses the feature selection problem. The second part then describes the application of machine learning in the classification problem, while the third part presents an overview of real-world applications of swarm-based optimization algorithms. The concept of machine learning (ML) is not

new in the field of computing. However, due to the ever-changing nature of requirements in today's world it has emerged in the form of completely new avatars. Now everyone is talking about ML-based solution strategies for a given problem set. The book includes research articles and expository papers on the theory and algorithms of machine learning and bio-inspiring optimization, as well as papers on numerical experiments and real-world applications. *Computing, Communication and Learning* CRC Press This book, divided in two volumes, originates from Techno-Societal 2020: the 3rd International Conference on Advanced Technologies for Societal Applications, Maharashtra, India, that brings together faculty members of various engineering colleges to solve Indian regional relevant problems under the guidance of eminent researchers from various reputed organizations. The focus of this volume is on technologies that help develop and improve society, in particular on issues such as sensor and ICT based technologies for the betterment of people, Technologies for agriculture and healthcare, micro and nano technological applications. This conference aims to help innovators to share their best practices or products developed to solve

specific local problems which in turn may help the other researchers to take inspiration to solve problems in their region. On the other hand, technologies proposed by expert researchers may find applications in different regions. This offers a multidisciplinary platform for researchers from a broad range of disciplines of Science, Engineering and Technology for reporting innovations at different levels.

Health Information Science CRC Press 2020 International Conference on Advanced Computing & Communication Systems (ICACCS) aims at exploring the interface between the industry and real time environment with state of the art techniques ICACCS 2020 publishes original and timely research papers and survey articles in current areas of sustainable computing, energy, smart city, temperature, power and environment related research areas of current importance to readers

Machine Learning with SVM and Other Kernel Methods IGI Global This book constitutes, together with its companion LNCS 2084, the refereed proceedings of the 6th International Work-Conference on Artificial and Natural Neural Networks, IWANN 2001, held in Granada, Spain in June 2001. The 200 revised papers presented were carefully reviewed and selected for inclusion in the proceedings. The papers are organized

in sections on foundations of connectionism, biophysical models of neurons, structural and functional models of neurons, learning and other plasticity phenomena, complex systems dynamics, artificial intelligence and cognitive processes, methodology for nets design, nets simulation and implementation, bio-inspired systems and engineering, and other applications in a variety of fields. *Machine Learning Paradigms: Theory and Application* Springer This book comprises the proceedings of the 26th International Conference on Hydraulics, Water Resources and Coastal Engineering (HYDRO 2021) focusing on broad spectrum of emerging opportunities and challenges in the field of soft computing and geospatial techniques in water resources engineering. It covers a range of topics, including, but not limited to, satellite derived data for hydrologic applications, GIS and RS applications in water resources management, rainfall and streamflow prediction, hydro-informatics, data driven and artificial intelligent based hydrological modelling, optimization of water resources systems, etc. Presenting recent advances in the form of illustrations, tables, and text, it offers readers insights for their own research. In addition, the book addresses fundamental concepts and studies in

the field of Soft Computing and Geospatial Techniques in Water Resources Engineering, making it a valuable resource for both beginners and researchers wanting to further their understanding of hydraulics, water resources and coastal engineering.

Semantic Web Technologies and Applications in Artificial Intelligence of Things

Springer Nature

Intelligent prediction and decision support systems are based on signal processing, computer vision (CV), machine learning (ML), software engineering (SE), knowledge based systems (KBS), data mining, artificial intelligence (AI) and include several systems developed from the study of expert systems (ES), genetic algorithms (GA), artificial neural networks (ANN) and fuzzy-logic systems The use of automatic decision support systems in design and manufacturing industry, healthcare and commercial software development systems has the following benifits: Cost savings in companies, due to employment of expert system technology. Fast decision making, completion of projects in time and development of new products. Improvement in decision making capability and quality. Usage of Knowledge database and Preservation of expertise of individuals Eases complex decision problems. Ex: Diagnosis in Healthcare

To address the issues and challenges related to development, implementation and application of automatic and intelligent prediction and decision support systems in domains such as manufacturing, healthcare and software product design, development and optimization, this book aims to collect and publish wide ranges of quality articles such as original research contributions, methodological reviews, survey papers, case studies and/or reports covering intelligent systems, expert prediction systems, evaluation models, decision support systems and Computer Aided Diagnosis (CAD).

Communication, Networks and Computing Frontiers Media SA

This volume constitutes the selected papers presented at the First International Conference on Advanced Network Technologies and Intelligent Computing, ANTIC 2021, hed in Varanasi, India, in December 2021. Due to the COVID-19 pandemic the conference was held online. The 61 papers presented were thoroughly reviewed and selected from 593 submissions. They are organized in topical sections on advanced network technologies and intelligent computing. ;

Handbook of Research on Advanced Techniques in Diagnostic Imaging and Biomedical

Applications CRC Press "This book includes state-of-the-art methodologies that introduce biomedical imaging in decision support systems and their applications in clinical practice"-- Provided by publisher. *DISEASE DETECCTION IN CROP USING IMAGE PROCESSING* Springer DISEASE DETECTION IN CROP USING IMAGE PROCESSING BOOK BASED ON AGRICUTURE TECHNOLOGY Trends in Artificial Intelligence Theory and Applications. Artificial Intelligence Practices Springer Science & Business Media This book presents recent advances in pattern analysis of the human connectome. The human connectome, measured by magnetic resonance imaging at the macroscale, provides a comprehensive description of how brain regions are connected. Based on machine learning methods, multiviarate pattern analysis can directly decode psychological or cognitive states from brain connectivity patterns. Although there are a number of works with chapters on conventional human connectome encoding (brain-mapping), there are few resources on human connectome decoding (brain-reading). Focusing mainly on advances made over the past decade in the field of manifold learning, sparse coding, multi-task learning, and deep learning of the human connectome and applications, this book

helps students and researchers gain an overall picture of pattern analysis of the human connectome. It also offers valuable insights for clinicians involved in the clinical diagnosis and treatment evaluation of neuropsychiatric disorders.

Python Data Science Handbook "O'Reilly Media, Inc."

The six volume set LNCS 10634, LNCS 10635, LNCS 10636, LNCS 10637, LNCS 10638, and LNCS 10639 constitues the proceedings of the 24rd International Conference on Neural Information Processing, ICONIP 2017, held in Guangzhou, China, in November 2017. The 563 full papers presented were carefully reviewed and selected from 856 submissions. The 6 volumes are organized in topical sections on Machine Learning, Reinforcement Learning, Big Data Analysis, Deep Learning, Brain-Computer Interface, Computational Finance, Computer Vision, Neurodynamics, Sensory Perception and Decision Making, Computational Intelligence, Neural Data Analysis, Biomedical Engineering, Emotion and Bayesian Networks, Data Mining, Time-Series Analysis, Social Networks, Bioinformatics, Information Security and Social Cognition, Robotics and Control, Pattern Recognition, Neuromorphic Hardware and Speech Processing.

Data Classification and

Incremental Clustering in Data Mining and Machine Learning Springer Nature
The confluence of Artificial Intelligence of Things (AIoT) and Semantic Web technologies is nothing short of revolutionary. The profound impact of this synergy extends far beyond the realms of industry, research, and society; it shapes the very fabric of our future. Semantic Web Technologies and Applications in Artificial Intelligence of Things is a meticulously crafted reference that not only acknowledges this significance but also serves as a guide for those navigating the complexities of Industry 4.0 and AIoT. This curated compendium of cutting-edge technologies acts as a veritable knowledge base for future developments. As academics, scholars, and industry professionals, the ideal audience of this book, will find meticulously curated content that caters to their diverse interests and expertise, covering topics ranging from smart agriculture, manufacturing, industry, health sciences, and government. Seasoned academics, students, and visionary industry leaders, will find this book to be an indispensable guide that paves the way for innovation and progress.
Machine Learning for Intelligent Multimedia Analytics Springer Nature
Machine learning continues to have

myriad applications across industries and fields. To ensure this technology is utilized appropriately and to its full potential, organizations must better understand exactly how and where it can be adapted. Further study on the applications of machine learning is required to discover its best practices, challenges, and strategies. The Research Anthology on Machine Learning Techniques, Methods, and Applications provides a thorough consideration of the innovative and emerging research within the area of machine learning. The book discusses how the technology has been used in the past as well as potential ways it can be used in the future to ensure industries continue to develop and grow. Covering a range of topics such as artificial intelligence, deep learning, cybersecurity, and robotics, this major reference work is ideal for computer scientists, managers, researchers, scholars, practitioners, academicians, instructors, and students.

Recent Advances in Big Data, Machine, and Deep Learning for Precision Agriculture

Springer Nature

This book provides readers with a snapshot of recent methods for non-stationary vibration analysis of machinery. It covers a broad range of advanced techniques in condition monitoring of machinery, such as

mathematical models, signal processing and pattern recognition methods and artificial intelligence methods, and their practical applications to the analysis of nonstationarities. Each chapter, accepted after a rigorous peer-review process, reports on a selected, original piece of work presented and discussed at the International Conference on Condition Monitoring of Machinery in Non-Stationary Operations, CMMNO'2016, held on September 12 – 16, 2016, in Gliwice, Poland. The contributions cover advances in both theory and practice in a variety of subfields, such as: smart materials and structures; fluid-structure interaction; structural acoustics as well as computational vibro-acoustics and numerical methods. Further topics include: engines control, noise identification, robust design, flow-induced vibration and many others. By presenting state-of-the-art in predictive maintenance solutions and discussing important industrial issues the book offers a valuable resource to both academics and professionals and is expected to facilitate communication and collaboration between the two groups.

Advanced Network Technologies and Intelligent Computing Springer These two volumes constitute the selected and revised papers presented at the Second International

Conference on Communication, Networks and Computing, CNC 2022, held in Gwalior, India, in December 2022. The 53 full papers were thoroughly reviewed and selected from the 152 submissions. They focus on the exciting new areas of wired and wireless communication systems, high-dimensional data representation and processing, networks and information security, computing techniques for efficient networks design, vehicular technology and applications and electronic circuits for communication systems that promise to make the world a better place to live in. **Geospatial and Soft Computing Techniques** PHI Learning Pvt. Ltd. This book presents the outcomes of the Intelligent Communication Technologies and Virtual Mobile Networks Conference (ICICV 2019) held in Tirunelveli, India, on February 14–15, 2019. It presents the state of the art in the field, identifying emerging research topics and communication technologies and defining the future of intelligent communication approaches and virtual computing. In light of the tremendous growth ICT, it examines the rapid developments in virtual reality in communication technology and high-quality services in mobile networks, including the integration of virtual

mobile computing and communication technologies, which permits new technologies based on the resources and services of computational intelligence, big data analytics, Internet of Things (IoT), 5G technology, automation systems, sensor networks, augmented reality, data mining, and vehicular ad hoc networks with massive cloud-based backend. These services have a significant impact on all areas of daily life, like transportation, e-commerce, health care, secure communication, location detection, smart home, smart city, social networks and many more.

Emerging Trends in Intelligent and Interactive Systems and Applications

Springer

This book presents the select proceedings of the International Conference on Automation, Signal Processing, Instrumentation and Control (i-CASIC) 2020. The book mainly focuses on emerging technologies in electrical systems, IoT-based instrumentation, advanced industrial automation, and advanced image and signal processing. It also includes studies on the analysis, design and implementation of instrumentation systems, and high-accuracy and energy-efficient controllers. The contents of this book will be useful for beginners, researchers as well as professionals interested in

instrumentation and control, and other allied fields.

Pattern Analysis of the Human Connectome

CRC Press

This book focuses on the core areas of computing and their applications in the real world. Presenting papers from the Computing Conference 2020 covers a diverse range of research areas, describing various detailed techniques that have been developed and implemented. The Computing Conference 2020, which provided a venue for academic and industry practitioners to share new ideas and development experiences, attracted a total of 514 submissions from pioneering academic researchers, scientists, industrial engineers and students from around the globe. Following a double-blind, peer-review process, 160 papers (including 15 poster papers) were selected to be included in these proceedings. Featuring state-of-the-art intelligent methods and techniques for solving real-world problems, the book is a valuable resource and will inspire further research and technological improvements in this important area.

Best Sellers - Books :
• Demon Copperhead: A Pulitzer Prize Winner
• The Seven Husbands Of Evelyn Hugo: A Novel
• The Complete Summer I Turned Pretty Trilogy

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• The Very Hungry Caterpillar
• The Collector: A Novel
• The Psychology Of Money: Timeless Lessons On Wealth, Greed, And Happiness By Morgan Housel
• Tucker
• Feel-good Productivity: How To Do More Of What Matters To You By Ali Abdaal
• Goodnight Moon
• Young Forever: The Secrets To Living Your Longest, Healthiest Life (the Dr. Hyman Library, 11) By Dr. Mark Hyman Md