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Applications of Computational Intelligence in Multi-Disciplinary Research

Grundlagen der Elektrotechnik

E Governance Data Center, Data Warehousing and Data Mining

Explainable Artificial Intelligence for Intelligent Transportation Systems

Cloud Computing

Computernetzwerke

Pragmatics of Social Media

Building the Knowledge Society on the Internet: Sharing and Exchanging Knowledge in Networked Environments

Sprint

Computational Science and Its Applications - ICCSA 2019

Graphentheorie

Handbook of Research in Mobile Business

Artificial Intelligence and Sustainable Computing for Smart City

Handbook of Research on the Role of Human Factors in IT Project Management

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Biophysik
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Applications of Computational
Intelligence in Multi-Disciplinary
Research Taylor & Francis

The six volumes LNCS 11619-11624
constitute the refereed proceedings of
the 19th International Conference on
Computational Science and Its

Applications, ICCSA 2019, held in Saint
Petersburg, Russia, in July 2019. The 64
full papers, 10 short papers and 259
workshop papers presented were
carefully reviewed and selected from
numerous submissions. The 64 full
papers are organized in the following
five general tracks: computational
methods, algorithms and scientific
applications; high performance
computing and networks; geometric

modeling, graphics and visualization; advanced and emerging applications; and information systems and technologies. The 259 workshop papers were presented at 33 workshops in various areas of computational sciences, ranging from computational science technologies to specific areas of computational sciences, such as software engineering, security, artificial intelligence and blockchain technologies.

Grundlagen der Elektrotechnik World Scientific

Applications of Computational Intelligence in Multi-Disciplinary Research provides the readers with a comprehensive handbook for applying the powerful principles, concepts, and algorithms of computational intelligence to a wide spectrum of research cases.

The book covers the main approaches used in computational intelligence, including fuzzy logic, neural networks, evolutionary computation, learning theory, and probabilistic methods, all of which can be collectively viewed as soft computing. Other key approaches included are swarm intelligence and artificial immune systems. These approaches provide researchers with powerful tools for analysis and problem-solving when data is incomplete and when the problem under consideration is too complex for standard mathematics and the crisp logic approach of Boolean computing. Provides an overview of the key methods of computational intelligence, including fuzzy logic, neural networks, evolutionary computation, learning theory, and probabilistic

methods Includes case studies and real-world examples of computational intelligence applied in a variety of research topics, including bioinformatics, biomedical engineering, big data analytics, information security, signal processing, machine learning, nanotechnology, and optimization techniques Presents a thorough technical explanation on how computational intelligence is applied that is suitable for a wide range of multidisciplinary and interdisciplinary research

E Governance Data Center, Data Warehousing and Data Mining John Wiley & Sons

Artificial Intelligence (AI) and Machine Learning (ML) are set to revolutionize all industries, and the Intelligent

Transportation Systems (ITS) field is no exception. While ML, especially deep learning models, achieve great performance in terms of accuracy, the outcomes provided are not amenable to human scrutiny and can hardly be explained. This can be very problematic, especially for systems of a safety-critical nature such as transportation systems. Explainable AI (XAI) methods have been proposed to tackle this issue by producing human interpretable representations of machine learning models while maintaining performance. These methods hold the potential to increase public acceptance and trust in AI-based ITS. FEATURES: Provides the necessary background for newcomers to the field (both academics and interested practitioners) Presents a timely snapshot

of explainable and interpretable models in ITS applications Discusses ethical, societal, and legal implications of adopting XAI in the context of ITS Identifies future research directions and open problems

Explainable Artificial Intelligence for Intelligent Transportation Systems

Springer Spektrum

This book presents the select proceedings of the 11th National Conference on Advances in Metrology (AdMet 2022). The book highlights and discusses the recent technological developments in the areas of fundamental and quantum metrology, physico-mechanical and electrical metrology, time and frequency metrology, materials metrology, industrial and legal metrology, digital

transformation in metrology, among others. This book is aimed for those engaged in conformity assessment, quality system management, calibration, and testing in all sectors of industry. The book is a valuable reference for metrologists, scientists, engineers, academicians, and students from research institutes and industrial establishments to explore the future directions and research in the areas of sensors, advance materials, measurements, and quality improvement.

Cloud Computing CRC Press

This book introduces the state-of-the-art in research in parallel and distributed embedded systems, which have been enabled by developments in silicon technology, micro-electro-mechanical

systems (MEMS), wireless communications, computer networking, and digital electronics. These systems have diverse applications in domains including military and defense, medical, automotive, and unmanned autonomous vehicles. The emphasis of the book is on the modeling and optimization of emerging parallel and distributed embedded systems in relation to the three key design metrics of performance, power and dependability. Key features: Includes an embedded wireless sensor networks case study to help illustrate the modeling and optimization of distributed embedded systems. Provides an analysis of multi-core/many-core based embedded systems to explain the modeling and optimization of parallel embedded

systems. Features an application metrics estimation model; Markov modeling for fault tolerance and analysis; and queueing theoretic modeling for performance evaluation. Discusses optimization approaches for distributed wireless sensor networks; high-performance and energy-efficient techniques at the architecture, middleware and software levels for parallel multicore-based embedded systems; and dynamic optimization methodologies. Highlights research challenges and future research directions. The book is primarily aimed at researchers in embedded systems; however, it will also serve as an invaluable reference to senior undergraduate and graduate students with an interest in embedded systems

research.

Computernetzwerke Springer-Verlag

Fundamental of Data Communication

Network Proceedings of International

Conference on Innovative Technologies

for Clean and Sustainable Development

(ICITCSD – 2021) Springer Nature

Pragmatics of Social Media Academic

Press

This book comprises select proceedings of the International Conference on Advances in Electrical and Computer Technologies 2020 (ICAECT 2020). The papers presented in this book are peer-reviewed and cover latest research in electrical, electronics, communication and computer engineering. Topics covered include smart grids, soft computing techniques in power systems, smart energy management systems,

power electronics, feedback control systems, biomedical engineering, geoinformative systems, grid computing, data mining, image and signal processing, video processing, computer vision, pattern recognition, cloud computing, pervasive computing, intelligent systems, artificial intelligence, neural network and fuzzy logic, broadband communication, mobile and optical communication, network security, VLSI, embedded systems, optical networks and wireless communication. The volume can be useful for students and researchers working in the different overlapping areas of electrical, electronics and communication engineering.

Building the Knowledge Society on the Internet: Sharing and Exchanging

Knowledge in Networked Environments

IGI Global

Advances in Computerized Analysis in Clinical and Medical Imaging book is devoted for spreading of knowledge through the publication of scholarly research, primarily in the fields of clinical & medical imaging. The types of chapters consented include those that cover the development and implementation of algorithms and strategies based on the use of geometrical, statistical, physical, functional to solve the following types of problems, using medical image datasets: visualization, feature extraction, segmentation, image-guided surgery, representation of pictorial data, statistical shape analysis, computational physiology and telemedicine with

medical images. This book highlights annotations for all the medical and clinical imaging researchers' a fundamental advances of clinical and medical image analysis techniques. This book will be a good source for all the medical imaging and clinical research professionals, outstanding scientists, and educators from all around the world for network of knowledge sharing. This book will comprise high quality disseminations of new ideas, technology focus, research results and discussions on the evolution of Clinical and Medical image analysis techniques for the benefit of both scientific and industrial developments. Features: Research aspects in clinical and medical image processing Human Computer Interaction and interface in imaging diagnostics Intelligent Imaging

Systems for effective analysis using machine learning algorithms Clinical and Scientific Evaluation of Imaging Studies Computer-aided disease detection and diagnosis Clinical evaluations of new technologies Mobility and assistive devices for challenged and elderly people This book serves as a reference book for researchers and doctoral students in the clinical and medical imaging domain including radiologists. Industries that manufacture imaging modality systems and develop optical systems would be especially interested in the challenges and solutions provided in the book. Professionals and practitioners in the medical and clinical imaging may be benefited directly from authors' experiences.
[Sprint Academic Press](#)

"This reference book brings together various perspectives on the usage and application of mobile technologies and networks in global business"--Provided by publisher.

Computational Science and Its Applications - ICCSA 2019 Springer Nature

AI, Edge, and IoT Smart Agriculture integrates applications of IoT, edge computing, and data analytics for sustainable agricultural development and introduces Edge of Thing-based data analytics and IoT for predictability of crop, soil, and plant disease occurrence for improved sustainability and increased profitability. The book also addresses precision irrigation, precision horticulture, greenhouse IoT, livestock monitoring, IoT ecosystem for

agriculture, mobile robot for precision agriculture, energy monitoring, storage management, and smart farming. The book provides an overarching focus on sustainable environment and sustainable economic development through smart and e-agriculture. Providing a medium for the exchange of expertise and inspiration, contributions from both smart agriculture and data mining researchers around the world provide foundational insights. The book provides practical application opportunities for the resolution of real-world problems, including contributions from the data mining, data analytics, Edge of Things, and cloud research communities working in the farming production sector. The book offers broad coverage of the concepts, themes, and instruments of

this important and evolving area of IOT-based agriculture, Edge of Things and cloud-based farming, Greenhouse IOT, mobile agriculture, sustainable agriculture, and big data analytics in agriculture toward smart farming. Integrates sustainable agriculture, Greenhouse IOT, precision agriculture, crops monitoring, crops controlling to prediction, livestock monitoring, and farm management Presents data mining techniques for precision agriculture, including weather prediction, plant disease prediction, and decision support for crop and soil selection Promotes the importance and uses in managing the agro ecosystem for food security Emphasizes low energy usage options for low cost and environmental sustainability

Graphentheorie Springer Nature

The role humans play in the field of information technology continues to hold relevance even with the industry's rapid growth. People contribute heavily to the physical, cognitive, and organizational domain of computing, yet there is a lack of exploration into this phenomenon.

Humanoid aspects of technology require extensive research in order to avoid marginalization and insufficient data.

The Handbook of Research on the Role of Human Factors in IT Project

Management is a collection of innovative research on the methods and applications of the task of human characteristics in the design and development of new technology. While highlighting topics including digitalization, risk management, and

task analysis, this book is ideally designed for IT professionals, managers, support executives, project managers, managing directors, academicians, researchers, and students seeking current research on the dynamics of human influence in technological projects.

Handbook of Research in Mobile Business Springer

A Practical Guide on Security and Privacy in Cyber-Physical Systems offers an in-depth look at the recent security and privacy challenges of Cyber-Physical Systems (CPS) in multiple application domains. It provides readers with a comprehensive view of system architecture for cybersecurity systems before actual implementation. The book first presents a systematic overview on

several CPS applications covering standard architectures before zooming into each of the layers of the architectural design to describe the underpinning technological, security, and privacy issues currently facing some CPS research groups. The guiding principles that should be followed while planning future innovations for such mission-critical systems are also covered. This book captures the latest advancements from many different fields and is a well-balanced combination of academic contributions and industrial applications in CPS. Written for students and professionals at all levels, this book presents the best practices for individuals who want to advance their research and development in this exciting area.

Artificial Intelligence and Sustainable Computing for Smart City Carl Hanser Verlag GmbH Co KG

This book is a do-it-yourself guide for clinicians who wish to set up and run a telemedicine facility of their own. The contents are largely based on the understanding and experience gained by the author as a practising physician, management post-graduate (capstone thesis was on telemedicine) and as a business architect for digital health systems over more than thirty years. Full of management techniques, tricks and tips written in an easy-to-follow manner, this book provides sufficient information to clinicians looking to leverage telemedicine to augment their range of service offerings that would lead to increased levels of patient satisfaction.

Various aspects related to definitions, technology, infrastructure, methodologies and legal issues for setting up and running telemedicine services have been dealt with to sufficient depths for the readers to help grasp the issues involved. Sections on privacy, confidentiality and data integrity have been provided to help allay the many concerns the readers might have in those regards. Additionally, financial evaluations based on realistic-enough figures have been used to demonstrate that telemedicine is a viable option financially. Although meant primarily for medical doctors, any care provider including institutional will be able to use the contents to plan, design, set up and run telemedicine services that they feel would benefit those who receive their

care.

Handbook of Research on the Role of Human Factors in IT Project Management
Springer Nature

This book comprises the proceedings of the 4th International Conference on Machine Intelligence and Signal Processing (MISP2022). The contents of this book focus on research advancements in machine intelligence, signal processing, and applications. The book covers the real-time challenges involved while processing big data analytics and stream processing with the integration of smart data computing services and interconnectivity. It also includes the progress in signal processing to process the normal and abnormal categories of real-world signals such as signals generated from IoT

devices, smart systems, speech, videos and involves biomedical signal processing: electrocardiogram (ECG), electroencephalogram (EEG), magnetoencephalography (MEG), electromyogram (EMG), etc. This book proves to be a valuable resource for those in academia and industry.

Webdatenbank-Applikationen mit PHP und MySQL O'Reilly Germany

This volume presents select proceedings of the International Conference on Innovative Technologies for Clean and Sustainable Development (ICITCSD - 2021), held at the National Institute of Technical Teachers Training & Research and Chitkara University, Himachal Pradesh, India. It covers several important aspects of sustainable civil engineering practices, dealing with

effective waste and material management, natural resources, industrial products, energy, food, transportation and shelter, environmental impact mitigation, waste minimization and management, sustainable infrastructure, and geospatial technology for sustainable and clean environment. Emphasis is placed on conserving and protecting the environment and the natural resource base essential for future development. The book includes case studies and ongoing research work from various fields related to civil engineering presented by academicians, scientists, and researchers. The book also discusses engineering solutions to sustainable development and green design issues. Special emphasis is given

on qualitative guidelines for the generation, treatment, handling, transport, disposal, and recycling of wastes. The book is intended as a practice-oriented reference guide for researchers and practitioners. It will be useful for anyone working in sustainable civil engineering and related fields.

A DIY Guide to Telemedicine for Clinicians CRC Press

Alle Teilgebiete der KI werden mit dieser Einführung kompakt, leicht verständlich und anwendungsbezogen dargestellt. Hier schreibt jemand, der das Gebiet nicht nur bestens kennt, sondern auch in der Lehre engagiert und erfolgreich vertritt. Von der klassischen Logik über das Schließen mit Unsicherheit und maschinelles Lernen bis hin zu Anwendungen wie Expertensysteme

oder lernfähige Roboter. Sie werden von dem sehr guten Überblick in dieses faszinierende Teilgebiet der Informatik profitieren. Und Sie gewinnen vertiefte Kenntnisse, z. B. hinsichtlich der wichtigsten Verfahren zur Repräsentation und Verarbeitung von Wissen. Vor allem steht der Anwendungsbezug im Fokus der Darstellung. Viele Übungsaufgaben mit Lösungen sowie eine strukturierte Liste mit Verweisen auf Literatur und Ressourcen im Web ermöglichen ein effektives und kurzweiliges Selbststudium. "Wolfgang Ertel [...] schafft es auf rund 300 Seiten verständlich zu erklären, wie Aussagenlogik, maschinelles Lernen und neuronale Netze die Grundlagen für künstliche Intelligenz bilden."

Technology Review 04/2008

Biophysik Springer

Gegenstand dieses Lehrbuchs ist die Behandlung schwer lösbarer diskreter Optimierungsprobleme. Im ersten Teil werden schnelle Algorithmen vorgestellt, die solche Probleme näherungsweise lösen können. Der zweite Teil behandelt Komplexitätstheorie und Nichtapproximierbarkeit von Optimierungsproblemen. Das Lehrbuch enthält zudem zahlreiche Anwendungsbeispiele, Übungsaufgaben, Illustrationen und Abschnitte über Grundlagen wie etwa die Turingmaschine.

Modeling and Optimization of Parallel and Distributed Embedded Systems

Redline Wirtschaft

This book offers a comprehensive

explanation on how to dimension, plan, and optimize WiMAX networks. The first part of the text introduces WiMAX networks architecture, physical layer, standard, protocols, security mechanisms, and highly related radio access technologies. It covers system framework, topology, capacity, mobility management, handoff management, congestion control, medium access control (MAC), scheduling, Quality of Service (QoS), and WiMAX mesh networks and security. Enabling easy understanding of key concepts and technologies, the second part presents practical examples and illustrative figures to explain planning techniques and optimization algorithms. The author provides both theoretical and practical information to ensure in-depth, realistic

results.

Computational Science and Its Applications - ICCSA 2021 Springer Nature

This book (proceedings of ISMS 2022) is intended to be used as a reference by students and researchers who collect scientific and technical contributions with respect to models, tools, technologies and applications in the field of information systems and management science. This textbook shows how to exploit information systems in a technology-rich management field. The book introduces concepts, principles, methods, and procedures that will be valuable to students and scholars in thinking about existing organization systems, proposing new systems, and working with management professionals

in implementing new information systems.

Computational Science and Its Applications - ICCSA 2018 CRC Press

This book focuses on soft computing and how it can be applied to solve real-world problems arising in various domains, ranging from medicine and health care, to supply chain management, image processing and cryptanalysis. It gathers high-quality papers presented at the International Conference on Soft Computing: Theories and Applications (SoCTA 2022), held at University Institute of Technology, Himachal Pradesh University Shimla, Himachal Pradesh, India. The book offers valuable insights into soft computing for teachers and researchers alike; the book inspires further research in this dynamic field.

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