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Proceedings of International Joint Conference on Advances in Computational Intelligence Computer Science and Health Engineering in Health Services Automatic Control, Robotics, and Information Processing Evolutionary Computing and Mobile Sustainable Networks Proceedings of the 9th International Conference on Advanced Intelligent Systems and Informatics 2023 Artificial Intelligence Doctoral Symposium Advances in Intelligent Systems and Computing Recent Advances in Renewable Energy Technologies Novel Research and Development Approaches in Heterogeneous Systems and Algorithms Applications of Hybrid Metaheuristic Algorithms for Image Processing Mobile Computing and Sustainable Informatics Learning and Intelligent Optimization Metaheuristics in Machine Learning: Theory and Applications Computer Networks and Inventive Communication Technologies Proceedings of CECNet 2021 Metaheuristics Smart Sensor Networks Using AI for Industry 4.0 Nature Inspired Computing for Data Science Printed Antennas for 5G Networks Applications of Nature-Inspired Computing and Optimization Techniques Third International Conference on Image Processing and Capsule Networks Guided Randomness in Optimization Handbook of Moth-Flame Optimization Algorithm AI and IoT-Based Technologies for Precision Medicine Overcurrent Relay Advances for Modern Electricity Networks Proceedings of Fourth International Conference on Communication, Computing and Electronics Systems Metaheuristics for Machine Learning Machine Vision and Augmented Intelligence Advances in Swarm Intelligence Advances in Mechanical Design Proceedings of the International Conference on Paradigms of Computing, Communication and Data Sciences International Research in Engineering Sciences Tenth International Conference on Applications and Techniques in Cyber Intelligence (ICATCI 2022) Proceedings of the 2nd International Conference on Cognitive Based Information Processing and Applications (CIPA 2022) Selected Papers from the ICEUBI2019 – International Congress on Engineering – Engineering for Evolution Advances in Manufacturing Engineering Data-Driven Innovation for Intelligent Technology Intelligent and Fuzzy Techniques for Emerging Conditions and Digital Transformation

Proceedings of International Joint Conference on Advances in Computational Intelligence

2022-05-18

this book gathers outstanding research papers presented at the 5th international joint conference on advances in computational intelligence ijcaici 2021 held online during october 23 24 2021 ijcaici 2021 is jointly organized by jahangirnagar university ju bangladesh and south asian university sau india the book presents the novel contributions in areas of computational intelligence and it serves as a reference material for advance research the topics covered are collective intelligence soft computing optimization cloud computing machine learning intelligent software robotics data science data security big data analytics and signal and natural language processing

Computer Science and Health Engineering in Health Services

2021-02-24

this book constitutes the refereed post conference proceedings of the 4th international conference on computer science and health engineering in health services due to covid 19 pandemic the conference was held virtually the 16 full papers presented were carefully reviewed and selected from 39 submissions the papers highlight the latest research innovations and applications of algorithms designed for optimization applications within the fields of science computer science engineering information technology economics and health systems

Automatic Control, Robotics, and Information Processing

2020-09-03

this book presents a wide and comprehensive range of issues and problems in various fields of science and engineering from both theoretical and applied perspectives the desire to develop more effective and efficient tools and techniques for dealing with complex processes and systems has been a natural inspiration for the emergence of numerous fields of science and technology in particular control and automation and more recently robotics the contributions gathered here concern the development of methods and algorithms to determine best practices regarding broadly perceived decisions or controls from an engineering standpoint many of them focus on how to automate a specific process or complex system from a tools based perspective several contributions address the development of analytic and algorithmic methods and techniques devices and systems that make it possible to develop and subsequently implement the automation and robotization of crucial areas of human activity all topics discussed are illustrated with sample applications

Evolutionary Computing and Mobile Sustainable Networks

2022-03-21

this book mainly reflects the recent research works in evolutionary computation technologies and mobile sustainable networks with a specific focus on computational intelligence and communication technologies that widely ranges from theoretical foundations to practical applications in enhancing the sustainability of mobile networks today network sustainability has become a significant research domain in both academia and industries present across the globe also the network sustainability paradigm has generated a solution for existing optimization challenges in mobile communication networks recently the research advances in evolutionary computing technologies including swarm intelligence algorithms and other evolutionary algorithm paradigms are considered as the widely accepted descriptors for mobile sustainable networks virtualization optimization and automation to deal with the emerging impacts on mobile communication networks this book discusses about the state of the research works on developing a sustainable design and their implementation in mobile networks with the advent of evolutionary computation algorithms this book contributes varied research chapters to develop a new perspective on mobile sustainable networks

Proceedings of the 9th International Conference on Advanced Intelligent Systems and Informatics 2023

2023-09-17

this proceedings book constitutes the refereed proceedings of the 9th international conference on advanced intelligent systems and informatics aisi 2023 which took place in port said university port said egypt during september 20 22 2023 egypt and is an international interdisciplinary conference that presents a spectrum of scientific research on all aspects of informatics and intelligent systems technologies and applications

Artificial Intelligence Doctoral Symposium

2023-08-20

this volume constitutes selected papers presented during the 5th artificial intelligence doctoral symposium aid 2022 held in algiers algeria in september 2022 the 22 presented full papers were thoroughly reviewed and selected from the 38 qualified submissions they are organized in the following topical sections data mining metaheuristics and swarm intelligence computer vision artificial intelligence applications machine and deep learning nlp and text mining

Advances in Intelligent Systems and Computing

2022-02-22

the book is a collection of high quality research papers presented at 7th euro china conference on intelligent data analysis and applications hosted by communication university of zhejiang china and technically co sponsored by shandong university of science and technology china zhejiang lab china and fujian university of technology china the book covers areas like intelligent data analysis computational intelligences signal processing and all associated applications of artificial intelligence

Recent Advances in Renewable Energy Technologies

2021-10-21

recent advances in renewable energy technologies is a comprehensive reference covering critical research laboratory and industry developments on renewable energy technological production conversion storage and management including solar energy systems thermal and photovoltaic wind energy hydropower geothermal energy bioenergy and hydrogen production and large scale development of renewable energy technologies and their impact on the global economy and power capacity technological advancements include resources assessment and deployment materials performance improvement system optimization and sizing instrumentation and control modeling and simulation regulations and policies each modular chapter examines recent advances in specific renewable energy systems providing theoretical and applied aspects of system optimization control and management and supports them with global case studies demonstrating practical applications and economical and environmental aspects through life cycle analysis the book is of interest to engineering graduates researchers professors and industry professionals involved in the renewable energy sector and advanced engineering courses dealing with renewable energy sources thermal and electrical energy production and sustainability focuses on the progress and research trends in solar wind biomass and hydropower and geothermal energy production and conversion includes advanced techniques for the distribution management optimization and storage of heat and energy using case studies

Novel Research and Development Approaches in Heterogeneous Systems and Algorithms

2023-03-07

almost every element of life from commerce and agriculture to communication and entertainment has been profoundly altered by computing around the world people rely on computers for the creation of

systems for energy transportation and military use additionally computing fosters scientific advancements that advance our basic understanding of the world and assist in finding answers to pressing health and environmental issues novel research and development approaches in heterogeneous systems and algorithms addresses novel research and developmental approaches in heterogeneous systems and algorithms for information centric networks of the future covering topics such as image identification and segmentation materials data extraction and wireless sensor networks this premier reference source is a valuable resource for engineers consultants practitioners computer scientists students and educators of higher education librarians researchers and academicians

Applications of Hybrid Metaheuristic Algorithms for Image Processing

2020-03-27

this book presents a collection of the most recent hybrid methods for image processing the algorithms included consider evolutionary swarm machine learning and deep learning the respective chapters explore different areas of image processing from image segmentation to the recognition of objects using complex approaches and medical applications the book also discusses the theory of the methodologies used to provide an overview of the applications of these tools in image processing the book is primarily intended for undergraduate and postgraduate students of science engineering and computational mathematics and can also be used for courses on artificial intelligence advanced image processing and computational intelligence further it is a valuable resource for researchers from the evolutionary computation artificial intelligence and image processing communities

Mobile Computing and Sustainable Informatics

2022-07-15

this book gathers selected high quality research papers presented at international conference on mobile computing and sustainable informatics icmsci 2022 organized by pulchowk campus institute of engineering tribhuvan university nepal during 27 28 january 2022 the book discusses recent developments in mobile communication technologies ranging from mobile edge computing devices to personalized embedded and sustainable applications the book covers vital topics like mobile networks computing models algorithms sustainable models and advanced informatics that supports the symbiosis of mobile computing and sustainable informatics

Learning and Intelligent Optimization

2023-11-25

this book constitutes the refereed proceedings of the 17th international conference on learning and intelligent optimization lion 17 held in nice france during june 4 8 2023 the 40 full papers presented have been carefully reviewed and selected from 83 submissions they focus on all aspects of unleashing the potential of integrating machine learning and optimization approaches including automatic heuristic selection intelligent restart strategies predict then optimize bayesian optimization and learning to optimize

Metaheuristics in Machine Learning: Theory and Applications

2021-09-13

this book is a collection of the most recent approaches that combine metaheuristics and machine learning some of the methods considered in this book are evolutionary swarm machine learning and deep learning the chapters were classified based on the content then the sections are thematic different applications and implementations are included in this sense the book provides theory and practical content with novel machine learning and metaheuristic algorithms the chapters were compiled using a scientific perspective accordingly the book is primarily intended for undergraduate and postgraduate students of science engineering and computational mathematics and is useful in courses on artificial intelligence advanced machine learning among others likewise the book is useful for research from the evolutionary computation artificial intelligence and image processing communities

Computer Networks and Inventive Communication Technologies

2022-01-19

this book is a collection of peer reviewed best selected research papers presented at 4th international conference on computer networks and inventive communication technologies iccnct 2021 the book covers new results in theory methodology and applications of computer networks and data communications it includes original papers on computer networks network protocols and wireless networks data communication technologies and network security the proceedings of this conference are a valuable resource dealing with both the important core and the specialized issues in the areas of next generation wireless network design control and management as well as in the areas of protection assurance and trust in information security practice it is a reference for researchers instructors students scientists engineers managers and industry practitioners for advanced work in the area

Proceedings of CECNet 2021

2021-10-10

it is almost impossible to imagine life today without the electronics communications and networks we have all come to take for granted the 6g network is currently under development and some chips able to operate at the terahertz thz scale have already been introduced so the next decade will probably see the consolidation of 6g based technology as well as many compliant devices this book presents the proceedings of the 11th international conference on electronics communications and networks cecnet 2021 initially planned to be held from 18 21 november 2021 in beijing china but ultimately held as an online event due to ongoing covid 19 restrictions the cecnet series is now an established annual event attracting participants in the interrelated fields of electronics computers communications and wireless communications engineering and technology from around the world careful review by program committee members who took into consideration the breadth and depth of those research topics that fall within the scope of cecnet resulted in the selection of the 88 papers presented here from the 325 submissions received this represents an acceptance rate of around 27 providing an overview of current research and developments in these rapidly evolving fields the book will be of interest to all those working with digital communications networks

Metaheuristics

2019-11-26

smart sensor networks wsns using ai have left a mark on the lives of all by aiding in various sectors such as manufacturing education healthcare and monitoring of the environment and industries this book covers recent ai applications and explores aspects of modern sensor technologies and the systems needed to operate them the book reviews the fundamental concepts of gathering processing and analyzing different ai based models and methods it covers recent wsn techniques for the purpose of effective network management on par with the standards laid out by international organizations in related fields and focuses on both core concepts along with major applicational areas the book will be used by technical developers academicians data sciences industrial professionals researchers and students interested in the latest innovations on problem oriented processing techniques in sensor networks using iot and evolutionary computer applications for industry 4 0

Smart Sensor Networks Using AI for Industry 4.0

2022-04-02

this book discusses the current research and concepts in data science and how these can be addressed using different nature inspired optimization techniques focusing on various data science problems including classification clustering forecasting and deep learning it explores how researchers are using nature inspired optimization techniques to find solutions to these problems in domains such as disease analysis and health care object recognition vehicular ad hoc networking high dimensional data analysis gene expression analysis microgrids and deep learning as such it provides insights and inspiration for researchers to wanting to employ nature inspired optimization techniques in their own endeavors

Nature Inspired Computing for Data Science

2024-04-04

the book provides a comprehensive overview of antennas for 5g technology such as mimo multiband antennas magneto electric dipole antenna and pifa antenna for 5g networks phased array antennas for 5g access beam forming and beam steering issues 5g antennas for specific applications smartphone cognitive radio and advance antenna concept and materials for 5g the book also covers optimizations methods for passive and active devices in mm wave 5g networks it explores topics which influence the design and characterization of antennas such as data rates high isolation pattern and spatial diversity making 5g antennas more suitable for a multipath environment the book represents a learning tool for researchers in the field and enables engineers designers and manufacturers to identify key design challenges of antennas for 5g networks and characterize novel antennas for 5g networks

Printed Antennas for 5G Networks

2012-07

advances in computers volume 135 highlights advances in the field with this new volume applications of nature inspired computing and optimization techniques presenting interesting chapters on a variety of timely topics including a brief introduction to nature inspired computing optimization and applications overview of non linear interval optimization problems solving the aircraft landing problem using the bee colony optimization bco algorithm situation based genetic network programming to solve agent control problems small signal stability enhancement of large interconnected power system using grasshopper optimization algorithm tuned power system stabilizer air quality modelling for smart cities of india by nature inspired ai a sustainable approach and much more other sections cover genetic algorithm for the optimization of infectiological parameter values under different nutritional status a novel influencer mutation strategy for nature inspired optimization algorithms to solve electricity price forecasting problem recent trends in human and bio inspired computing use case study from retail perspective domain knowledge enriched summarization of legal judgment documents via grey wolf optimization and a host of other topics includes algorithm specific studies that cover basic introduction and analysis of key components of algorithms such as convergence solution accuracy computational costs tuning and control of parameters comprises some of the major applications of different domains presents application specific studies incorporating ways of designing objective functions solution representation and constraint handling

Applications of Nature-Inspired Computing and Optimization Techniques

2022-07-28

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2015-05-04

this book provides a collection of the state of the art research attempts to tackle the challenges in image and signal processing from various novel and potential research perspectives the book investigates feature extraction techniques image enhancement methods reconstruction models object detection methods recommendation models deep and temporal feature analysis intelligent decision support systems and autonomous image detection models in addition to this the book also looks into the potential opportunities to monitor and control the global pandemic situations image processing technology has progressed significantly in recent years and it has been commercialized worldwide to provide superior performance with enhanced computer machine vision video processing and pattern recognition capabilities meanwhile machine learning systems like cnn and capsnet get popular to provide better model hierarchical relationships and attempts to more closely mimic biological neural organization as machine learning systems prosper image processing and machine learning techniques will be tightly intertwined and continuously promote each other in real world settings adopting this trend however the image processing researchers are faced with few image reconstruction analysis and segmentation challenges on the application side the orientation of the image features and noise removal has become a huge burden

Third International Conference on Image Processing and Capsule Networks

2022-09-20

the performance of an algorithm used depends on the gna this book focuses on the comparison of optimizers it defines a stress outcome approach which can be derived all the classic criteria median average etc and other more sophisticated source codes used for the examples are also presented this allows a reflection on the superfluous chance succinctly explaining why and how the stochastic aspect of optimization could be avoided in some cases

Guided Randomness in Optimization

2023-10-18

reviews the literature of the moth flame optimization algorithm provides an in depth analysis of equations mathematical models and mechanisms of the moth flame optimization algorithm proposes different variants of the moth flame optimization algorithm to solve binary multi objective noisy dynamic and combinatorial optimization problems demonstrates how to design develop and test different hybrids of moth flame optimization algorithm introduces several applications areas of the moth flame optimization algorithm focusing in sustainability

Handbook of Moth-Flame Optimization Algorithm

2022-12-05

in the post covid 19 healthcare landscape the demand for smart healthcare solutions and precision medicine systems has grown significantly to address these challenges the book ai and iot based technologies for precision medicine provides a comprehensive resource for doctors researchers engineers and students by leveraging ai and iot technologies the book equips healthcare professionals with advanced tools and methodologies for predictive disease analysis informed decision making and other aspects of precision medicine this resource bridges the gap between theory and practice exploring concepts like machine learning deep learning computer vision ai integrated applications iot based technologies healthcare data analytics and biotechnology applications through this the book empowers healthcare practitioners to pioneer innovative solutions that enhance efficiency accuracy and security in medical practices ai and iot based technologies for precision medicine not only offer insights into the potential of ai powered applications and iot equipped techniques in smart healthcare but also foster collaboration among healthcare scholars and professionals this authoritative guide encourages knowledge sharing and collaboration to harness the transformative potential of ai and iot leading to revolutionary advancements in medical practices and healthcare services with this book as a guide readers can navigate the evolving landscape of high tech medicine taking confident steps toward a cutting edge and precise medical ecosystem

AI and IoT-Based Technologies for Precision Medicine

2023-03-14

overcurrent relay advances for modern electricity networks explores how to optimize protection and improve system stability and resilience by implementing advanced overcurrent relays in highly dynamic renewable heavy power systems this guide provides a foundation in relay functions and behaviors in current modern networks particularly regarding renewable power sources and new electrical network structures such as microgrids the work discusses the design and creation of protection schemes in smart grids and analyzes their impact on performance and security in protection systems this practical book also presents a critical new coordination method for online applications reviews performance considerations and application challenges in optimizing overcurrent relays in future networks provides mathematical and computational modeling scenarios for relays geared for application in future commercial equipment designs describes how to adopt online protection systems by means of optimization algorithms for the adjustment and coordination of relays includes pseudocodes of routines designed to support readers who are implementing or analyzing these systems outlines a demonstrative virtual relay to execute programming operation and optimize coordination of relays

Overcurrent Relay Advances for Modern Electricity Networks

2023-03-13

this book includes high quality research papers presented at the fourth international conference on communication computing and electronics systems icces 2022 held at the ppg institute of technology coimbatore india on september 15 16 2022 the book focuses mainly on the research trends in cloud computing mobile computing artificial intelligence and advanced electronics systems the topics covered are automation vlsi embedded systems optical communication rf communication microwave engineering artificial intelligence deep learning pattern recognition communication networks internet of things cyber physical systems and healthcare informatics

Proceedings of Fourth International Conference on Communication, Computing and Electronics Systems

2023-06-01

using metaheuristics to enhance machine learning techniques has become trendy and has achieved major successes in both supervised classification and regression and unsupervised clustering and rule mining problems furthermore automatically generating programs via metaheuristics as a form of evolutionary computation and swarm intelligence has now gained widespread popularity this book investigates different ways of integrating metaheuristics into machine learning techniques from both theoretical and practical standpoints it explores how metaheuristics can be adapted in order to enhance machine learning tools and presents an overview of the main metaheuristic programming methods moreover real world applications are provided for illustration e g in clustering big data machine health monitoring underwater sonar targets and banking

Metaheuristics for Machine Learning

2018-06-15

this book comprises the proceedings of the international conference on machine vision and augmented intelligence mai 2022 the conference proceedings encapsulate the best deliberations held during the conference the diversity of participants in the event from academia industry and research reflects in the articles appearing in the book the book encompasses all industrial and non industrial applications this book covers a wide range of topics such as modeling of disease transformation epidemic forecast image processing and computer vision augmented intelligence soft computing deep learning image reconstruction artificial intelligence in health care brain computer interface cybersecurity social network analysis and natural language processing

Machine Vision and Augmented Intelligence

2023-02-23

the two volume set of Incs 10941 and 10942 constitutes the proceedings of the 9th international conference on advances in swarm intelligence icsi 2018 held in shanghai china in june 2018 the total of 113 papers presented in these volumes was carefully reviewed and selected from 197 submissions the papers were organized in topical sections as follows theories and models of swarm intelligence ant colony optimization particle swarm optimization artificial bee colony algorithms genetic algorithms differential evolution fireworks algorithms bacterial foraging optimization artificial immune system hydrologic cycle optimization other swarm based optimization algorithms hybrid optimization algorithms multi objective optimization large scale global optimization multi agent systems swarm robotics fuzzy logic approaches planning and routing problems recommendation in social media prediction classification finding patterns image enhancement deep learning

Advances in Swarm Intelligence

2022-10-20

this book gathers selected high quality research papers presented at international conference on paradigms of communication computing and data sciences pccds 2022 held at malaviya national institute

2022)

2021-08-23

this book presents recent research in intelligent and fuzzy techniques emerging conditions such as pandemic wars natural disasters and various high technologies force people for significant changes in business and social life the adoption of digital technologies to transform services or businesses through replacing non digital or manual processes with digital processes or replacing older digital technology with newer digital technologies through intelligent systems is the main scope of this book it focuses on revealing the reflection of digital transformation in our business and social life under emerging conditions through intelligent and fuzzy systems the latest intelligent and fuzzy methods and techniques on digital transformation are introduced by theory and applications the intended readers are intelligent and fuzzy systems researchers lecturers m sc and ph d students studying digital transformation usage of ordinary fuzzy sets and their extensions heuristics and metaheuristics from optimization to machine learning from quality management to risk management makes the book an excellent source for researchers

Selected Papers from the ICEUBI2019 - International Congress on Engineering - Engineering for Evolution

Advances in Manufacturing Engineering

Data-Driven Innovation for Intelligent Technology

Intelligent and Fuzzy Techniques for Emerging Conditions and Digital Transformation

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