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Intelligent Computational Optimization in Engineering

Techniques and Applications



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<u>Intelligent Systems And Technologies Methods And</u> <u>Applications Studies In Computational Intelligence</u>

Khosrow-Pour, D.B.A., Mehdi

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Intelligent Systems and Technologies Junzo Watada, 2009-06-17 Intelligent systems and technologies are increasing finding their ways in our daily lives This book presents a sample of recent research results from key researchers The contributions include Introduction to intelligent systems A Fuzzy Density Analysis of Subgroups by means of DNA Oligonucleotides Evolution of Cooperating Classification Rules with an Archiving Strategy to Underpin Collaboration Designing Agents with Dynamic Capability Localized versus Locality Preserving Representation Methods in Face Recognition Tasks Invariance Properties of Recurrent Neural Networks Solving Bioinformatics Problems by Soft Computing Techniques Transforming an Interactive Expert Code into a Statefull Service and a Multicoreenabled System Ro WordNet with Paradigmatic Morphology and Subjectivity Mark up Special Cases of Relative Object Qualification using the AMONG Operator Effective Speaker Tracking Strategies for Multi party Human Computer Dialogue The Fuzzy Interpolative Control for Passive Greenhouses GPS safety system for airplanes 3D Collaborative Interfaces for E learning Open Projects in Contemporary E Learning Software Platform for Archaeological Patrimony Inventory and Management The book is directed to the graduate students researchers professors and the practitioner of intelligent systems Advanced Methodologies and Technologies in Artificial Intelligence, Computer Simulation, and Human-Computer Interaction Khosrow-Pour, D.B.A., Mehdi, 2018-09-28 As modern technologies continue to develop and evolve the ability of users to adapt with new systems becomes a paramount concern Research into new ways for humans to make use of advanced computers and other such technologies through artificial intelligence and computer simulation is necessary to fully realize the potential of tools in the 21st century Advanced Methodologies and Technologies in Artificial Intelligence Computer Simulation and Human Computer Interaction provides emerging research in advanced trends in robotics AI simulation and human computer interaction Readers will learn about the positive applications of artificial intelligence and human computer interaction in various disciples such as business and medicine This book is a valuable resource for IT professionals researchers computer scientists and researchers invested in assistive technologies artificial intelligence robotics and computer simulation **Application of** Smart Grid Technologies Lisa Lamont, Ali Sayigh, 2018-05-29 Application of Smart Grid Technologies Case Studies in Saving Electricity in Different Parts of the World provides a wide international view of smart grid technologies and their implementation in all regions of the globe A brief overview of smart grid concepts and state of the art technologies is followed by sections that highlight smart grid experiences in Asia Africa North America South America Europe and Australasia Chapters address select countries or sub regions presenting their local technological needs and specificities status of smart grid implementation technologies of choice impacts on their electricity markets and future trends Similar chapter makes it easier to compare these experiences In a time when the smart grid is becoming a worldwide reality this book is ideal for professionals in power transmission and distribution companies as well as students and researchers in the

same field It is also useful for those involved in energy management and policymaking Presents the status and challenges of smart grid technologies and their implementation around the globe Includes global case studies written by local experts and organized for easy comparison Provides a brief overview of smart grid concepts and currently available technologies

Proceedings of 3rd International Conference on Machine Learning, Advances in Computing, Renewable Energy and Communication Anuradha Tomar, Hasmat Malik, Pramod Kumar, Atif Igbal, 2022-09-17 This book gathers selected papers presented at International Conference on Machine Learning Advances in Computing Renewable Energy and Communication MARC 2021 held in Krishna Engineering College Ghaziabad India during 10 11 December 2021 This book discusses key concepts challenges and potential solutions in connection with established and emerging topics in advanced computing renewable energy and network communications Computational Intelligence Techniques and Their Applications to Software Engineering Problems Ankita Bansal, Abha Jain, Sarika Jain, Vishal Jain, Ankur Choudhary, 2020-09-27 Computational Intelligence Techniques and Their Applications to Software Engineering Problems focuses on computational intelligence approaches as applicable in varied areas of software engineering such as software requirement prioritization cost estimation reliability assessment defect prediction maintainability and quality prediction size estimation vulnerability prediction test case selection and prioritization and much more The concepts of expert systems case based reasoning fuzzy logic genetic algorithms swarm computing and rough sets are introduced with their applications in software engineering The field of knowledge discovery is explored using neural networks and data mining techniques by determining the underlying and hidden patterns in software data sets Aimed at graduate students and researchers in computer science engineering software engineering information technology this book Covers various aspects of in depth solutions of software engineering problems using computational intelligence techniques Discusses the latest evolutionary approaches to preliminary theory of different solve optimization problems under software engineering domain Covers heuristic as well as meta heuristic algorithms designed to provide better and optimized solutions Illustrates applications including software requirement prioritization software cost estimation reliability assessment software defect prediction and more Highlights swarm intelligence based optimization solutions for software testing and reliability problems Computational Intelligence In Manufacturing Handbook Jun Wang, Andrew Kusiak, 2000-12-27 Despite the large volume of publications devoted to neural networks fuzzy logic and evolutionary programming few address the applications of computational intelligence in design and manufacturing Computational Intelligence in Manufacturing Handbook fills this void as it covers the most recent advances in this area and state of the art applicati Computational Intelligence Nazmul Siddigue, Hojjat Adeli, 2013-05-06 Computational Intelligence Synergies of Fuzzy Logic Neural Networks and Evolutionary Computing presents an introduction to some of the cutting edge technological paradigms under the umbrella of computational intelligence Computational intelligence schemes are investigated with the development of a suitable framework for fuzzy logic neural networks and

evolutionary computing neuro fuzzy systems evolutionary fuzzy systems and evolutionary neural systems Applications to linear and non linear systems are discussed with examples Key features Covers all the aspects of fuzzy neural and evolutionary approaches with worked out examples MATLAB exercises and applications in each chapter Presents the synergies of technologies of computational intelligence such as evolutionary fuzzy neural fuzzy and evolutionary neural systems Considers real world problems in the domain of systems modelling control and optimization Contains a foreword written by Lotfi Zadeh Computational Intelligence Synergies of Fuzzy Logic Neural Networks and Evolutionary Computing is an ideal text for final year undergraduate postgraduate and research students in electrical control computer industrial and manufacturing engineering Computational Intelligence Mircea Gh. Negoita, Daniel Neagu, Vasile Palade, 2005-02-17 Hybrid Intelligent Systems has become an important research topic in computer science and a key application field in science and engineering This book offers a gentle introduction to the engineering aspects of hybrid intelligent systems also emphasizing the interrelation with the main intelligent technologies such as genetic algorithms evolutionary computation neural networks fuzzy systems evolvable hardware DNA computing artificial immune systems A unitary whole of theory and application the book provides readers with the fundamentals background information and practical methods for building a hybrid intelligent system It treats a panoply of applications including many in industry educational systems forecasting financial engineering and bioinformatics This volume is useful to newcomers in the field because it quickly familiarizes them with engineering elements of developing hybrid intelligent systems and a wide range of real applications including non industrial applications Researchers developers and technically oriented managers can use the book for developing both new hybrid intelligent systems approaches and new applications requiring the hybridization of the typical tools and concepts to computational intelligence Innovative Trends in Computational Intelligence Ravi Tomar, Manolo Dulva Hina, Rafik Zitouni, Amar Ramdane-Cherif, 2021-11-29 This book addresses the key problems that computational intelligence aims to solve including i the involved computational process might be too complex for mathematical reasoning ii it might contain some uncertainties during the process or iii by nature the computational process is a randomly determined one heuristic The contributors make use of methods that are close to the human s way of reasoning that is available information might be inexact or incomplete yet it would be able to produce controlled actions in an adaptive way Approaches presented in the book include swarm intelligence artificial immune systems image processing data mining natural language processing text mining and other solutions involving artificial intelligence methodologies **Tenth International Conference on Applications** and Techniques in Cyber Intelligence (ICATCI 2022) Jemal H. Abawajy, Zheng Xu, Mohammed Atiguzzaman, Xiaolu Zhang, 2023-04-07 This book presents innovative ideas cutting edge findings and novel techniques methods and applications in a broad range of cybersecurity and cyberthreat intelligence areas As our society becomes smarter there is a corresponding need to secure our cyberfuture The book describes approaches and findings that are of interest to business professionals and

governments seeking to secure our data and underpin infrastructures as well as to individual users New Challenges in **Applied Intelligence Technologies** Radoslaw Katarzyniak, 2008-06-17 To built intelligent systems that can cope with real world problems we need to velop computational mechanisms able to deal with very large amounts of data gen ate complex plans schedules and resource allocation strategies re plan their actions in real time provide user friendly communication for human device interactions and perform complex optimization problems In each of these tasks intelligence techno gies play an important role providing designers and creators with effective and adequate computational models. The field of intelligence technologies covers a variety of computational approaches that are often suggested and inspired by biological systems exhibiting functional richness and flexibility of their natural behavior This class of technologies consists of such important approaches as data mining algorithms neural networks genetic al rithms fuzzy and multi valued logics rough sets agent oriented computation often integrated into complex hybrid solutions Intelligence technologies are used to built machines that can act and think like living systems solve problems in an autonomous way develop rich private knowledge bases and produce results not foreseen and programmed in a direct way by designers and creators **Artificial Intelligence in Performance-Driven Design** Narjes Abbasabadi, Mehdi Ashayeri, 2024-05-21 A definitive interdisciplinary reference to using artificial intelligence technology and data driven methodologies for sustainable design Artificial Intelligence in Performance Driven Design Theories Methods and Tools explores the application of artificial intelligence AI specifically machine learning ML for performance modeling within the built environment This work develops the theoretical foundations and methodological frameworks for utilizing AI ML with an emphasis on multi scale modeling encompassing energy flows environmental quality and human systems The book examines relevant practices case studies and computational tools that harness AI s capabilities in modeling frameworks enhancing the efficiency accuracy and integration of physics based simulation optimization and automation processes Furthermore it highlights the integration of intelligent systems and digital twins throughout the lifecycle of the built environment to enhance our understanding and management of these complex environments This book also Incorporates emerging technologies into practical ideas to improve performance analysis and sustainable design Presents data driven methodologies and technologies that integrate into modeling and design platforms Shares valuable insights and tools for developing decarbonization pathways in urban buildings Includes contributions from expert researchers and educators across a range of related fields Artificial Intelligence in Performance Driven Design is ideal for architects engineers planners and researchers involved in sustainable design and the built environment It s also of interest to students of architecture building science and technology urban design and planning environmental engineering and computer science and engineering Computational Collective Intelligence -- Technologies and Applications Dosam Hwang, Jason J. Jung, Ngoc Thanh Nguyen, 2014-09-04 This book constitutes the refereed proceedings of the 6th International Conference on Collective Intelligence ICCCI 2014 held in Seoul Korea in September 2014 The 70 full papers presented were

carefully reviewed and selected from 205 submissions. They address topics such as knowledge integration data mining for collective processing fuzzy modal and collective systems nature inspired systems language processing systems social networks and semantic web agent and multi agent systems classification and clustering methods multi dimensional data processing Web systems intelligent decision making methods for scheduling image and video processing collective intelligence in web systems computational swarm intelligence cooperation and collective knowledge Artificial Intelligence, Data Science, and Cutting-Edge Technologies: From Concepts to Applications in Smart Environment Yousef Farhaoui, Tutut Herawan, Agbotiname Lucky Imoize, Ahmad El Allaoui, 2025-06-30 Offering a comprehensive exploration this book navigates through foundational concepts to advanced applications providing readers with a holistic understanding of how these domains intersect to create intelligent and responsive environments The Intersection of Artificial Intelligence Data Science and Cutting Edge Technologies From Concepts to Applications in Smart Environments delves into the convergence of AI data science and innovative technologies within the realm of smart environments Through a blend of theoretical insights and practical examples the book illuminates the synergies between AI and data science showcasing their pivotal roles in shaping the future of smart environments From sensor technologies to machine learning algorithms the text elucidates the mechanisms driving intelligence in these environments while also delving into the ethical considerations and societal impacts of deploying such technologies Whether you re a researcher practitioner or enthusiast in the fields of AI data science or smart environments this book serves as a guiding beacon offering valuable insights and methodologies to navigate the complexities of creating and optimizing intelligent environments for the benefit of Artificial Intelligence and Internet of Things for Smart Agriculture Shanwen Zhang, Bin Liu, Chuanlei society Zhang, Ce Yang, 2024-10-22 Smart agriculture combines modern science and technology with agricultural cultivation to achieve unmanned automatic intelligent management of agricultural production such as intelligent irrigation intelligent fertilization and intelligent spraying It is the application of artificial intelligence AI and Internet of Things IoTs in the field of modern agriculture Agricultural AI AAI is the application of various information technologies and their cross application in the field of agriculture including intelligent equipment IoTs agricultural unmanned aerial vehicle intelligent perception deep learning digital twin network expert systems agricultural cognitive computing etc With the rapid development of smart agriculture agricultural applications combined with deep learning are quite common such as crop disease pest detection growth environment monitoring automatic crop picking unmanned farm management etc Edge computing can provide efficient and reliable new data processing solutions for multi scenario and complex tasks in agriculture At present cloud computing deep learning and digital twinning have been widely used in agricultural fields such as plant identification and detection pest diagnosis and recognition remote sensing regional classification and monitoring fruit carrier detection and agricultural product classification animal identification and posture detection etc Computational Approaches to Assistive

Technologies for People with Disabilities N.J. Cercone, K. Naruedomkul, 2013-07-16 Assistive technologies have become increasingly important for people with disabilities in recent years This book is the result of over a decade of research into computational approaches to assistive technology Its chapters are based on a number of graduate theses successfully completed over the past dozen or so years under the supervision of Kanlaya Naruedomkul of Mahidol University in Bangkok Thailand and Nick Cercone of York University Toronto Canada Some applications in the chapters use Thai language examples but the techniques employed are not restricted to any single language Each chapter is based on the Ph D work of a former or current student suitably updated and presented for interested readers. The book is divided into four sections Following an introduction which includes a review of assistive technology products part two covers applications and includes chapters on alternative sign text MT for language learning lexical simplification using word sense disambiguation and detecting and rating dementia through lexical analysis of spontaneous speech Part three deals with theories and systems and includes granules for learning behavior rough sets methods and applications for medical data and multimedia support systems as assistive technology for hearing impaired students Part four presents a conclusion which includes a look into the future Although this book is not a comprehensive treatise on assistive technology it nevertheless provides a fascinating look at recent research and will be of interest to all those whose work involves the application of assistive technologies for people Recent Trends in Computational Intelligence Enabled Research Siddhartha with disabilities Bhattacharyya, Paramartha Dutta, Debabrata Samanta, Anirban Mukherjee, Indrajit Pan, 2021-07-31 The field of computational intelligence has grown tremendously over that past five years thanks to evolving soft computing and artificial intelligent methodologies tools and techniques for envisaging the essence of intelligence embedded in real life observations Consequently scientists have been able to explain and understand real life processes and practices which previously often remain unexplored by virtue of their underlying imprecision uncertainties and redundancies and the unavailability of appropriate methods for describing the incompleteness and vagueness of information represented With the advent of the field of computational intelligence researchers are now able to explore and unearth the intelligence otherwise insurmountable embedded in the systems under consideration Computational Intelligence is now not limited to only specific computational fields it has made inroads in signal processing smart manufacturing predictive control robot navigation smart cities and sensor design to name a few Recent Trends in Computational Intelligence Enabled Research Theoretical Foundations and Applications explores the use of this computational paradigm across a wide range of applied domains which handle meaningful information Chapters investigate a broad spectrum of the applications of computational intelligence across different platforms and disciplines expanding our knowledge base of various research initiatives in this direction This volume aims to bring together researchers engineers developers and practitioners from academia and industry working in all major areas and interdisciplinary areas of computational intelligence communication systems computer networks and soft

computing Provides insights into the theory algorithms implementation and application of computational intelligence techniques Covers a wide range of applications of deep learning across various domains which are researching the applications of computational intelligence Investigates novel techniques and reviews the state of the art in the areas of machine learning computer vision soft computing techniques The 1995 Goddard Conference on Space Applications of Artificial Intelligence and Emerging Information Technologies Carl F. Hostetter, 1995 **Artificial Intelligence** and Global Society Puneet Kumar, Vinod Kumar Jain, Dharminder Kumar, 2021-03-15 In the constant battle between human intelligence and machine intelligence machines are close to surpassing human intelligence. The unrestrained use of digital technologies in automating processes is one of the prime advantages of the third industrial revolution As a result all developed and developing nations have started to digitalize mundane tasks Thus digital technologies for information and communication technologies ICT have achieved high market space in terms of infrastructure building employment generation education sector reforms funds mobilization electronic governance hardware manufacturing software development etc Hence it is evident that every segment of society has been penetrated by ICT or digitalization This book attempts to spotlight areas where AI is thriving FEATURES Impact of digitalization and AI on governance Novel AI practices being followed across the global community in security healthcare crime prevention and detection education agriculture sensor networks etc Innovative techniques that can be adopted to ensure better quality and better delivery of services to the society Avenues for further research by the research community and student fraternity This book is a guide for university students especially those from technical backgrounds industries NGOs and policy makers **Human Interaction & Emerging Technologies** (IHIET 2022): Artificial Intelligence & Future Applications Tareg Ahram and Redha Taiar, 2022-07-24 Human Interaction Emerging Technologies IHIET 2022 Artificial Intelligence Future Applications Proceedings of the 8th International Conference on Human Interaction Emerging Technologies IHIET 2022 Artificial Intelligence Future Applications August 22 24 2022 Nice France

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