

Advanced Intelligent Computing 7th International Conference Icic 2011 Zhengzhou China August 11 14 2011 Revised Selected Papers Lecture Notes In Computer Science

Smart Intelligent Computing and ApplicationsWeb, Artificial Intelligence and Network ApplicationsAdvanced Intelligent Computing Theories and ApplicationsAdvanced Intelligent Computing Theories and ApplicationsIntelligent Computer MathematicsIndex of Conference ProceedingsRecent Developments in Intelligent Computing, Communication and DevicesAdvanced Concepts for Intelligent Vision SystemsComputational Intelligence and Feature SelectionProceedings of the 7th International Conference on Kansei Engineering and Emotion Research 2018Frontiers in Intelligent Computing: Theory and ApplicationsSmart Cities, Green Technologies and Intelligent Transport SystemsMemoirs of the Institute of Scientific and Industrial Research, Osaka UniversityFood AustraliaComputational Intelligence and Machine LearningAdvanced Intelligent Computing Theories and ApplicationsAdvanced Intelligent Computing Theories and ApplicationsAdvanced Intelligent Computing Theories and Applications. With Aspects of Theoretical and Methodological IssuesSecurity with Intelligent Computing and Big-Data Services 2019Advanced Computing and Systems for SecurityFrontiers in Intelligent Computing: Theory and ApplicationsArtificial Neural NetworksAdvanced Intelligent ComputingData MiningSoft Computing Models in Industrial and Environmental ApplicationsIntelligent Distributed Computing XIKnowledge-Based Intelligent Information and Engineering Systems7th International Conference on Knowledge Management in Organizations: Service and Cloud ComputingIntelligent Distributed Computing VIISimulation and Modeling Methodologies, Technologies and ApplicationsActivity ReportComplex, Intelligent, and Software Intensive SystemsIEEE/ASME International Conference on Advanced Intelligent Mechatronics ProceedingsIntelligent Virtual AgentsProceedings of the 7th International Conference on Web Intelligence, Mining and SemanticsIntelligent Computing in EngineeringTrends and Applications in Software EngineeringApplied Artificial IntelligenceIntelligent Computing EverywhereAPMR

Smart Intelligent Computing and Applications

This book presents the proceedings of the 7th International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA 2018), held at Duy Tan University, Da Nang, Vietnam. The event brought together researchers, scientists, engineers, and practitioners to exchange ideas and experiences in the domain of intelligent computing theories with prospective applications in various engineering disciplines. These proceedings are divided into two volumes. Covering broad areas of intelligent engineering informatics, with papers exploring both the theoretical and practical aspects of various areas like ANN and genetic algorithms, human-computer interaction, intelligent control optimization, intelligent e-

learning systems, machine learning, mobile computing, and multi-agent systems, this volume is a valuable resource for postgraduate students in various engineering disciplines.

Web, Artificial Intelligence and Network Applications

The International Conference on Intelligent Computing (ICIC) was formed to provide an annual forum dedicated to the emerging and challenging topics in artificial intelligence, machine learning, bioinformatics, and computational biology, etc. It aims to bring together researchers and practitioners from both academia and industry to share ideas, problems and solutions related to the multifaceted aspects of intelligent computing. ICIC 2008, held in Shanghai, China, September 15–18, 2008, constituted the 4th International Conference on Intelligent Computing. It built upon the success of ICIC 2007, ICIC 2006 and ICIC 2005 held in Qingdao, Kunming and Hefei, China, 2007, 2006 and 2005, respectively. This year, the conference concentrated mainly on the theories and methodologies as well as the emerging applications of intelligent computing. Its aim was to unify the picture of contemporary intelligent computing techniques as an integral concept that highlights the trends in advanced computational intelligence and bridges theoretical research with applications. Therefore, the theme for this conference was “Emerging Intelligent Computing Technology and Applications”. Papers focusing on this theme were solicited, addressing theories, methodologies, and applications in science and technology.

Advanced Intelligent Computing Theories and Applications

This book reflects the current perception in various fields that modern computing applications are becoming increasingly challenged in terms of complexity and intelligence. It investigates the relevance and relationship artificial intelligence maintains with "modern strands of computing". These consist of pervasive computing and ambient intelligence, bioinformatics, neuroinformatics, computing and the mind, non-classical computing and novel computing models, as well as DNA computing and quantum computing.

Advanced Intelligent Computing Theories and Applications

This book constitutes the refereed proceedings of the 7th International Conference on Advanced Concepts for Intelligent Vision Systems, ACIVS 2005, held in Antwerp, Belgium in September 2005. The 90 revised full papers presented were carefully reviewed and selected from around 200 submissions. The papers are organized in topical sections on biometrics, classification and recognition, content and performance characterization, image and video analysis, image and video coding, image and video segmentation, medical image processing applications, motion estimation and tracking, noise reduction and restoration, and real-time processing and hardware.

Intelligent Computer Mathematics

This book represents the combined peer-reviewed proceedings of the Seventh International Symposium on Intelligent Distributed Computing - IDC-2013, of the Second Workshop on Agents for Clouds - A4C-2013, of the Fifth International Workshop on Multi-Agent Systems Technology and Semantics - MASTS-2013, and of the International Workshop on Intelligent Robots - iR-2013. All the events were held in Prague, Czech Republic during September 4-6, 2013. The 41 contributions published in this book address many topics related to theory and applications of intelligent distributed computing and multi-agent systems, including: agent-based data processing, ambient intelligence, bio-informatics, collaborative systems, cryptography and security, distributed algorithms, grid and cloud computing, information extraction, intelligent robotics, knowledge management, linked data, mobile agents, ontologies, pervasive computing, self-organizing systems, peer-to-peer computing, social networks and trust, and swarm intelligence.

Index of Conference Proceedings

This book presents the proceedings of the 7th International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA 2018), held at Duy Tan University, Da Nang, Vietnam. The event brought together researchers, scientists, engineers, and practitioners to exchange new ideas and experiences in the domain of intelligent computing theories with prospective applications in various engineering disciplines. These proceedings are divided into two volumes. Covering broad areas of information and decision sciences, with papers exploring both the theoretical and practical aspects of data-intensive computing, data mining, evolutionary computation, knowledge management and networks, sensor networks, signal processing, wireless networks, protocols and architectures, this volume is a valuable resource for postgraduate students in various engineering disciplines.

Recent Developments in Intelligent Computing, Communication and Devices

The aim of the book is to provide latest research findings, innovative research results, methods and development techniques from both theoretical and practical perspectives related to the emerging areas of Web Computing, Intelligent Systems and Internet Computing. As the Web has become a major source of information, techniques and methodologies that extract quality information are of paramount importance for many Web and Internet applications. Data mining and knowledge discovery play key roles in many of today's prominent Web applications such as e-commerce and computer security. Moreover, the outcome of Web services delivers a new platform for enabling service-oriented systems. The emergence of large scale distributed computing paradigms, such as Cloud Computing and Mobile Computing Systems, has opened many opportunities for collaboration services, which are at the core of any Information System. Artificial Intelligence

(AI) is an area of computer science that build intelligent systems and algorithms that work and react like humans. The AI techniques and computational intelligence are powerful tools for learning, adaptation, reasoning and planning. They have the potential to become enabling technologies for the future intelligent networks. Recent research in the field of intelligent systems, robotics, neuroscience, artificial intelligence and cognitive sciences are very important for the future development and innovation of Web and Internet applications.

Advanced Concepts for Intelligent Vision Systems

This book gathers a selection of papers presented at the 2018 International Conference on Software Process Improvement (CIMPS 2018). CIMPS 2018 offered a global forum for researchers and practitioners to present and discuss the latest innovations, trends, findings, experiences and concerns in Software Engineering, embracing several aspects such as Software Processes, Security in Information and Communication Technology, and Big Data. Two of the conference's main aims were to support the drive toward a holistic symbiosis of the academic world, society, industry, government and business community, and to promote the creation of networks by disseminating the results of recent research in order to align their needs. CIMPS 2018 was made possible by the support of the CIMAT A.C., CUCEI (Universidad de Guadalajara, México), AISTI (Associação Ibérica de Sistemas e Tecnologias de Informação), and ReCIBE (Revista electrónica de Computación, Informática, Biomédica y Electrónica).

Computational Intelligence and Feature Selection

Proceedings of the 7th International Conference on Kansei Engineering and Emotion Research 2018

This volume of Advances in Intelligent and Soft Computing contains accepted papers presented at SOCO 2012, held in the beautiful and historic city of Ostrava (Czech Republic), in September 2012. Soft computing represents a collection or set of computational techniques in machine learning, computer science and some engineering disciplines, which investigate, simulate, and analyze very complex issues and phenomena. After a thorough peer-review process, the SOCO 2012 International Program Committee selected 75 papers which are published in these conference proceedings, and represents an acceptance rate of 38%. In this relevant edition a special emphasis was put on the organization of special sessions. Three special sessions were organized related to relevant topics as: Soft computing models for Control Theory & Applications in Electrical Engineering, Soft computing models for biomedical signals and data processing and Advanced Soft Computing Methods in Computer Vision and Data Processing. The selection of papers was extremely rigorous in order to

maintain the high quality of the conference and we would like to thank the members of the Program Committees for their hard work in the reviewing process. This is a crucial process to the creation of a high standard conference and the SOCO conference would not exist without their help.

Frontiers in Intelligent Computing: Theory and Applications

The proceedings gather a selection of refereed papers presented at the 7th International Conference on Kansei Engineering and Emotion Research 2018 (KEER 2018), which was held in Kuching, Malaysia from 19 to 22 March 2018. The contributions address the latest advances in and innovative applications of Kansei Engineering and Emotion Research. The subjects include: Kansei, Emotion and Games Kansei, Emotion and Computing Kansei, Emotion and Wellbeing / Quality of Life Kansei, Emotion and Design Kansei, Emotion and Health / Ergonomics Kansei, Emotion and Multidisciplinary Fields Kansei, Emotion and Culture Kansei, Emotion and Social computing Kansei, Emotion and Evaluation Kansei, Emotion and User Experience. The book offers a valuable resource for all graduate students, experienced researchers and industrial practitioners interested in the fields of user experience/usability, engineering design, human factors, quality management, product development and design.

Smart Cities, Green Technologies and Intelligent Transport Systems

This book focuses on both theory and applications in the broad areas of computational intelligence and machine learning. The proceedings of the Seventh International Conference on Advanced Computing, Networking, and Informatics (ICACNI 2019) present research papers in the areas of advanced computing, networking, and informatics. It brings together contributions from scientists, professors, scholars, and students and presents essential information on the topic. It also discusses the practical challenges encountered and the solutions used to overcome them, the goal being to promote the “translation” of basic research into applied research and of applied research into practice. The works presented here also demonstrate the importance of basic scientific research in a range of fields.

Memoirs of the Institute of Scientific and Industrial Research, Osaka University

The seventh International Conference on Knowledge Management in Organizations (KMO) brings together researchers and developers from industry and the academic world to report on the latest scientific and technical advances on knowledge management in organisations. KMO 2012 provides an international forum for authors to present and discuss research focused on the role of knowledge management for innovative services in industries, to shed light on recent advances in cloud computing for KM as well as to identify future directions for researching the role of knowledge management in service

innovation and how cloud computing can be used to address many of the issues currently facing KM in academia and industrial sectors. The conference took place at Salamanca in Spain on the 11th-13th July in 2012.

Food Australia

Computational Intelligence and Machine Learning

This tutorial text provides the reader with an understanding of artificial neural networks (ANNs), and their application, beginning with the biological systems which inspired them, through the learning methods that have been developed, and the data collection processes, to the many ways ANNs are being used today. The material is presented with a minimum of math (although the mathematical details are included in the appendices for interested readers), and with a maximum of hands-on experience. All specialized terms are included in a glossary. The result is a highly readable text that will teach the engineer the guiding principles necessary to use and apply artificial neural networks.

Advanced Intelligent Computing Theories and Applications

This book - in conjunction with the double volume LNCS 9225-9556 - constitutes the refereed proceedings of the 11th International Conference on Intelligent Computing, ICIC 2015, held in Fuzhou, China, in August 2015. The 84 papers of this volume were carefully reviewed and selected from 671 submissions. Original contributions related to this theme are especially solicited, including theories, methodologies, and applications in science and technology. This year, the conference concentrated mainly on machine learning theory and methods, soft computing, image processing and computer vision, knowledge discovery and data mining, natural language processing and computational linguistics, intelligent control and automation, intelligent communication networks and web applications, bioinformatics theory and methods, healthcare and medical methods, and information security.

Advanced Intelligent Computing Theories and Applications

The proceedings covers advanced and multi-disciplinary research on design of smart computing and informatics. The theme of the book broadly focuses on various innovation paradigms in system knowledge, intelligence and sustainability that may be applied to provide realistic solution to varied problems in society, environment and industries. The volume publishes quality work pertaining to the scope of the conference which is extended towards deployment of emerging computational and knowledge transfer approaches, optimizing solutions in varied disciplines of science, technology and healthcare.

Advanced Intelligent Computing Theories and Applications. With Aspects of Theoretical and Methodological Issues

Security with Intelligent Computing and Big-Data Services 2019

Advanced Computing and Systems for Security

This book reviews state-of-the-art methodologies and techniques for analyzing enormous quantities of raw data in high-dimensional data spaces, to extract new information for decision making. The goal of this book is to provide a single introductory source, organized in a systematic way, in which we could direct the readers in analysis of large data sets, through the explanation of basic concepts, models and methodologies developed in recent decades. If you are an instructor or professor and would like to obtain instructor's materials, please visit <http://booksupport.wiley.com> If you are an instructor or professor and would like to obtain a solutions manual, please send an email to: pressbooks@ieee.org

Frontiers in Intelligent Computing: Theory and Applications

Annotation 7th International Conference on Web Intelligence, Mining and Semantics Jun 19, 2017-Jun 22, 2017 Amantea, Italy. You can view more information about this proceeding and all of ACM's other published conference proceedings from the ACM Digital Library: <http://www.acm.org/dl>.

Artificial Neural Networks

This book aims to attract researchers and practitioners who are working in Information Technology and Computer Science. This edited book is about basics and high level concepts regarding Blockchain Technology and Application, Multimedia Security, Information Processing, Security of Network, Cloud and IoT, Cryptography and Cryptosystem, Learning and Intelligent Computing, Information Hiding. It is becoming increasingly important to develop adaptive, intelligent computing-centric, energy-aware, secure and privacy-aware mechanisms in high performance computing and IoT applications. The book serves as a useful guide for industry persons and also helps beginners to learn things from basic to advance in the area of better computing paradigm. Our aim is intended to provide a platform for researchers, engineers, academicians as well as industrial professionals from all over the world to present their research results in security related areas. We believe that this volume not only presents novel and interesting ideas but also will stimulate interesting discussions from the

participants and inspire new ideas.

Advanced Intelligent Computing

This book offers a collection of high-quality, peer-reviewed research papers presented at the International Conference on Intelligent Computing, Communication and Devices (ICCD 2017), discussing all dimensions of intelligent sciences – intelligent computing, intelligent communication, and intelligent devices. Intelligent computing addresses areas such as intelligent and distributed computing, intelligent grid and cloud computing, internet of things, soft computing and engineering applications, data mining and knowledge discovery, semantic and web technology, hybrid systems, agent computing, bioinformatics, and recommendation systems. Intelligent communication is concerned with communication and network technologies, such as mobile broadband and all optical networks that are the key to groundbreaking inventions of intelligent communication technologies. It includes communication hardware, software and networked intelligence, mobile technologies, machine-to-machine communication networks, speech and natural language processing, routing techniques and network analytics, wireless ad hoc and sensor networks, communications and information security, signal, image and video processing, network management, and traffic engineering. Lastly, intelligent devices are any equipment, instruments, or machines that have their own computing capability. As computing technology becomes more advanced and less expensive, it can be incorporated an increasing number of devices of all kinds. This area covers such as embedded systems, radiofrequency identification (RFID), radiofrequency microelectromechanical system (RF MEMS), very-large-scale integration (VLSI) design and electronic devices, analog and mixed-signal integrated circuit (IC) design and testing, microelectromechanical system (MEMS) and microsystems, solar cells and photonics, nanodevices, single electron and spintronics devices, space electronics, and intelligent robotics.

Data Mining

This book comprises select papers from the international conference on Research in Intelligent and Computing in Engineering (RICE 2019) held at Hanoi University of Industry, Hanoi, Vietnam. The volume focuses on current research on various computing models such as centralized, distributed, cluster, grid and cloud. The contents cover recent advances in wireless sensor networks, mobile ad hoc networks, internet of things, machine learning, grid and cloud computing, and their various applications. The book will help researchers as well as professionals to gain insight into the rapidly evolving fields of internet computing and data mining.

Soft Computing Models in Industrial and Environmental Applications

This book contains extended version of selected works that have been discussed and presented in the fourth International Doctoral Symposium on Applied Computation and Security Systems (ACSS 2017) held in Patna, India during March 17-19, 2017. The symposium was organized by the Departments of Computer Science & Engineering and A. K. Choudhury School of Information Technology, both from University of Calcutta in collaboration with NIT, Patna. The International partners for ACSS 2016 had been Ca Foscari University of Venice, Italy and Bialystok University of Technology, Poland. This bi-volume book has a total of 21 papers divided in 7 chapters. The chapters reflect the sessions in which the works have been discussed during the symposium. The different chapters in the book include works on biometrics, image processing, pattern recognition, algorithms, cloud computing, wireless sensor networks and security systems.

Intelligent Distributed Computing XI

This book constitutes the thoroughly refereed post-conference proceedings of the 7th International Conference on Intelligent Computing, ICIC 2011, held in Zhengzhou, China, in August 2011. The 94 revised full papers presented were carefully reviewed and selected from 832 submissions. The papers are organized in topical sections on intelligent computing in scheduling; local feature descriptors for image processing and recognition; combinatorial and numerical optimization; machine learning theory and methods; intelligent control and automation; knowledge representation/reasoning and expert systems; intelligent computing in pattern recognition; intelligent computing in image processing; intelligent computing in computer vision; biometrics with applications to individual security/forensic sciences; modeling, theory, and applications of positive systems; sparse manifold learning methods and applications; advances in intelligent information processing.

Knowledge-Based Intelligent Information and Engineering Systems

The International Conference on Intelligent Computing (ICIC) was formed to provide an annual forum dedicated to the emerging and challenging topics in artificial intelligence, machine learning, bioinformatics, and computational biology, etc. It aims to bring together researchers and practitioners from both academia and industry to share ideas, problems and solutions related to the multifaceted aspects of intelligent computing. ICIC 2008, held in Shanghai, China, September 15-18, 2008, constituted the 4th International Conference on Intelligent Computing. It built upon the success of ICIC 2007, ICIC 2006 and ICIC 2005 held in Qingdao, Kunming and Hefei, China, 2007, 2006 and 2005, respectively. This year, the conference concentrated mainly on the theories and methodologies as well as the emerging applications of intelligent computing. Its aim was to unify the picture of contemporary intelligent computing techniques as an integral concept that highlights the trends in advanced computational intelligence and bridges theoretical research with applications. Therefore, the theme for this conference was "Emerging Intelligent Computing Technology and Applications". Papers focusing on this

theme were solicited, addressing theories, methodologies, and applications in science and technology.

7th International Conference on Knowledge Management in Organizations: Service and Cloud Computing

Intelligent Distributed Computing VII

This book constitutes the thoroughly refereed post-conference proceedings of the 7th International Conference on Intelligent Computing, ICIC 2011, held in Zhengzhou, China, in August 2011. The 94 revised full papers presented were carefully reviewed and selected from 832 submissions. The papers are organized in topical sections on neural networks; machine learning theory and methods; fuzzy theory and models; fuzzy systems and soft computing; evolutionary learning & genetic algorithms; swarm intelligence and optimization; intelligent computing in computer vision; intelligent computing in image processing; biometrics with applications to individual security/forensic sciences; intelligent image/document retrievals; natural language processing and computational linguistics; intelligent data fusion and information security; intelligent computing in pattern recognition; intelligent agent and web applications; intelligent computing in scheduling; intelligent control and automation.

Simulation and Modeling Methodologies, Technologies and Applications

The LNAI series reports state-of-the-art results in computer science research, development, and education, at a high level and in both printed and electronic form. Enjoying tight cooperation with the R&D community, with numerous individuals, as well as with prestigious organizations and societies, LNAI has grown into the most comprehensive computer science research forum available. The scope of LNAI spans the whole range of artificial intelligence and intelligent information processing including interdisciplinary topics in a variety of application fields. In parallel to the printed book, each new volume is published electronically in LNCS Online.

Activity Report

The rough and fuzzy set approaches presented here open up many new frontiers for continued research and development. Computational Intelligence and Feature Selection provides readers with the background and fundamental ideas behind Feature Selection (FS), with an emphasis on techniques based on rough and fuzzy sets. For readers who are less familiar with the subject, the book begins with an introduction to fuzzy set theory and fuzzy-rough set theory. Building on this

foundation, the book provides: A critical review of FS methods, with particular emphasis on their current limitations Program files implementing major algorithms, together with the necessary instructions and datasets, available on a related Web site Coverage of the background and fundamental ideas behind FS A systematic presentation of the leading methods reviewed in a consistent algorithmic framework Real-world applications with worked examples that illustrate the power and efficacy of the FS approaches covered An investigation of the associated areas of FS, including rule induction and clustering methods using hybridizations of fuzzy and rough set theories Computational Intelligence and Feature Selection is an ideal resource for advanced undergraduates, postgraduates, researchers, and professional engineers. However, its straightforward presentation of the underlying concepts makes the book meaningful to specialists and nonspecialists alike.

Complex, Intelligent, and Software Intensive Systems

This book gathers the proceedings of the 11th International Conference on Complex, Intelligent, and Software Intensive Systems (CISIS-2017), held on June 28–June 30, 2017 in Torino, Italy. Software Intensive Systems are characterized by their intensive interaction with other systems, sensors, actuators, devices, and users. Further, they are now being used in more and more domains, e.g. the automotive sector, telecommunication systems, embedded systems in general, industrial automation systems and business applications. Moreover, the outcome of web services delivers a new platform for enabling software intensive systems. Complex Systems research is focused on the understanding of a system as a whole rather than its components. Complex Systems are very much shaped by the changing environments in which they operate, and by their multiple internal and external interactions. They evolve and adapt through internal and external dynamic interactions. The development of Intelligent Systems and agents, which invariably involves the use of ontologies and their logical foundations, offers a fruitful impulse for both Software Intensive Systems and Complex Systems. Recent research in the fields of intelligent systems, robotics, neuroscience, artificial intelligence, and cognitive sciences is essential to the future development of and innovations in software intensive and complex systems. The aim of the volume “Complex, Intelligent and Software Intensive Systems” is to provide a platform of scientific interaction between the three interwoven and challenging areas of research and development of future Information and Communications Technology (ICT)-enabled applications: Software Intensive Systems, Complex systems and Intelligent Systems.

IEEE/ASME International Conference on Advanced Intelligent Mechatronics Proceedings

This book presents a collection of contributions addressing recent advances and research in synergistic combinations of topics in the joint fields of intelligent computing and distributed computing. It focuses on the following specific topics: distributed data mining and machine learning, reasoning and decision-making in distributed environments, distributed evolutionary algorithms, trust and reputation models for distributed systems, scheduling and resource allocation in

distributed systems, intelligent multi-agent systems, advanced agent-based and service-based architectures, and Smart Cloud and Internet of Things (IoT) environments. The book represents the combined peer-reviewed proceedings of the 11th International Symposium on Intelligent Distributed Computing (IDC 2017) and the 7th International Workshop on Applications of Software Agents (WASA 2017), both of which were held in Belgrade, Serbia from October 11 to 13, 2017.

Intelligent Virtual Agents

This book highlights a set of selected, revised and extended papers from the 7th International Conference on Simulation and Modeling Methodologies, Technologies and Applications (SIMULTECH 2017), held in Madrid, Spain, on July 26 to 28, 2017. The conference brought together researchers, engineers and practitioners whose work involves methodologies in and applications of modeling and simulation. The papers showcased here represent the very best papers from the Conference, and report on a broad range of new and innovative solutions.

Proceedings of the 7th International Conference on Web Intelligence, Mining and Semantics

This book constitutes the refereed proceedings of the 7th International Workshop on Intelligent Virtual Agents, IVA 2007, held in Paris, France, September 2007. The 19 revised full papers and 12 revised short papers presented together with five invited talks and the abstracts of 32 poster papers are organized in topical sections on rendering and analysis, culture and identity, behavior models, feedback models, dialogues, applications, evaluation, gaze models and emotions.

Intelligent Computing in Engineering

Trends and Applications in Software Engineering

FLINS, originally an acronym for Fuzzy Logic and Intelligent Technologies in Nuclear Science, is now extended to Applied Artificial Intelligence for Applied Research. The contributions to the seventh in the series of FLINS conferences contained in this volume cover state-of-the-art research and development in applied artificial intelligence for applied research in general and for power/nuclear engineering in particular. Contents: Learning Techniques in Service Robotic Environment (Z Z Bien et al.); The Role of Soft Computing in Applied Sciences (P P Wang); New Operators for Context Adaptation of Mamdani Fuzzy Systems (A Botta et al.); Lukasiewicz Algebra Model of Linguistic Values of Truth and Their Reasoning (L Yi et al.); Annihilator and Alpha-Subset (X Q Long et al.); On PCA Error of Subject Classification (L H Feng et al.); Knowledge Discovery for Customer Classification on the Principle of Maximum Profit (C Zeng et al.); Fuzzy Multi-Objective Interactive Goal

Programming Approach to Aggregate Production Planning (T Ertay); Analysing Success Criteria for ICT Projects (K Milis & K Vanhoof); Prioritization of Relational Capital Measurement Indicators Using Fuzzy AHP (A Beskese & F T Bozbura); Risk Analysis and Management of Urban Rainstorm Water Logging in Tianjin (S Han et al.); Obstacle Avoidance Learning for Biomimetic Robot Fish (Z Shen et al.); Urban Signal Control Using Intelligent Agents (M A Alipour & S Jalili); Parallel Evolutionary Methods Applied to a PWR Core Reload Pattern Optimization (R Schirru et al.); and other papers. Readership: Graduate students, researchers and industrialists in AI, applied mathematics, computer science and engineering, electrical & electronic engineering, and nuclear/power engineering.

Applied Artificial Intelligence

Intelligent Computing Everywhere

This book constitutes the thoroughly refereed post-conference proceedings of the 7th International Conference on Smart Cities and Green ICT Systems, SMARTGREENS 2018, and the 4th International Conference on Vehicle Technology and Intelligent Transport Systems, VEHITS 2018, held in Funchal-Madeira, Portugal in March 2018. The 18 full papers presented during SMARTGREENS 2018 and VEHITS 2018 were carefully reviewed and selected from numerous submissions. The papers reflect topics such as smart cities and green ICT systems; vehicle technology and intelligent transport systems.

APMR

During recent decades we have witnessed not only the introduction of automation into the work environment but we have also seen a dramatic change in how automation has influenced the conditions of work. While some 30 years ago the addition of a computer was considered only for routine and boring tasks in support of humans, the balance has dramatically shifted to the computer being able to perform almost any task the human is willing to delegate. The very fast pace of change in processor and information technology has been the main driving force behind this development. Advances in automation and especially Artificial Intelligence (AI) have enabled the formation of a rather unique team with human and electronic members. The team is still supervised by the human with the machine as a subordinate associate or assistant, sharing responsibility, authority and autonomy over many tasks. The requirement for teaming human and machine in a highly dynamic and unpredictable task environment has led to impressive achievements in many supporting technologies. These include methods for system analysis, design and engineering and in particular for information processing, for cognitive and complex knowledge [1] engineering .

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