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Radoslaw Katarzyniak



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Data Mining: Foundations and Practice Tsau Young Lin, Ying Xie, Anita Wasilewska, Churn-Jung Liao, 2008-08-20 The IEEE ICDM 2004 workshop on the Foundation of Data Mining and the IEEE ICDM 2005 workshop on the Foundation of Semantic Oriented Data and Web Mining focused on topics ranging from the foundations of data mining to new data mining paradigms The workshops brought together both data mining researchers and practitioners to discuss these two topics while seeking solutions to long standing data mining problems and stimulating new data mining research directions We feel that the papers presented at these workshops may encourage the study of data mining as a scientific field and spark new communications and collaborations between researchers and practitioners To express the visions forged in the workshop to a wider range of data mining researchers and practitioners and foster active participation in the study of foundations of data mining we edited this volume by involving extended and updated versions of selected papers presented at those workshops as well as some other relevant contributions The content of this book includes studies of foundations of data mining from theoretical practical algorithmical and managerial perspectives The following is a brief summary of the papers contained in this book

Advances in Machine Learning II Jacek Koronacki, Zbigniew W. Ras, Slawomir T. Wierzbichon, 2009-12-24 This is the second volume of a large two volume editorial project we wish to dedicate to the memory of the late Professor Ryszard S Michalski who passed away in 2007 He was one of the fathers of machine learning an exciting and relevant both from the practical and theoretical points of view area in modern computer science and information technology His research career started in the mid 1960s in Poland in the Institute of Automation Polish Academy of Sciences in Warsaw Poland He left for the USA in 1970 and since then had worked there at various universities notably at the University of Illinois at Urbana Champaign and finally until his untimely death at George Mason University We the editors had been lucky to be able to meet and collaborate with Ryszard for years

indeed some of us knew him when he was still in Poland After he started working in the USA he was a frequent visitor to Poland taking part at many conferences until his death We had also witnessed with a great personal pleasure honors and awards he had received over the years notably when some years ago he was elected Foreign Member of the Polish Academy of Sciences among some top scientists and scholars from all over the world including Nobel prize winners Professor Michalski s research results influenced very strongly the development of machine learning data mining and related areas Also he inspired many established and younger scholars and scientists all over the world We feel very happy that so many top scientists from all over the world agreed to pay the last tribute to Professor Michalski by writing papers in their areas of research These papers will constitute the most appropriate tribute to Professor Michalski a devoted scholar and researcher Moreover we believe that they will inspire many newcomers and younger researchers in the area of broadly perceived machine learning data analysis and data mining The papers included in the two volumes Machine Learning I and Machine Learning II cover diverse topics and various aspects of the fields involved For convenience of the potential readers we will now briefly summarize the contents of the particular chapters

Computational Intelligence for Remote Sensing Manuel Grana, Richard J. Duro, 2008-06-05 This book is a composition of different points of view regarding the application of Computational Intelligence techniques and methods to Remote Sensing data and applications It is the general consensus that classification its related data processing and global optimization methods are core topics of Computational Intelligence Much of the content of the book is devoted to image segmentation and recognition using diverse tools from different areas of the Computational Intelligence field ranging from Artificial Neural Networks to Markov Random Field modeling The book covers a broad range of topics starting from the hardware design of hyperspectral sensors and data handling problems namely data compression and watermarking issues as well as autonomous web services The main contents of the book are devoted to image analysis and efficient parallel implementations of these analysis techniques The classes of images dealt with throughout the book are mostly multispectral hyperspectral images though there are some instances of processing Synthetic Aperture Radar images

Intelligence and Security Informatics Hsinchun Chen, Christopher C. Yang, 2008-06-17 The IEEE International Conference on Intelligence and Security Informatics ISI and Pacific Asia Workshop on Intelligence and Security Informatics PAISI conference series <http://www.isiconference.org> have drawn significant attention in the recent years Intelligence and Security Informatics is concerned with the study of the development and use of advanced information technologies and systems for national international and societal security related applications The ISI conference series have brought together academic researchers law enforcement and intelligence experts information technology consultant and practitioners to discuss their research and practice related to various ISI topics including ISI data management data and text mining for ISI applications terrorism informatics deception and intent detection terrorist and criminal social network analysis public health and bio security crime analysis cyber infrastructure protection transportation infrastructure security policy

studies and evaluation information assurance among others In this book we collect the work of the most active researchers in the area Topics include data and text mining in terrorism information sharing social network analysis Web based intelligence monitoring and analysis crime data analysis infrastructure protection deception and intent detection and more Scope and Organization The book is organized in four major areas The first unit focuses on the terrorism formatics and data mining The second unit discusses the intelligence and crime analysis The third unit covers access control infrastructure protection and privacy The fourth unit presents surveillance and emergency response

New Challenges in Applied Intelligence

Technologies Radoslaw Katarzyniak, 2008-06-17 To build intelligent systems that can cope with real world problems we need to develop computational mechanisms able to deal with very large amounts of data generate 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 technologies 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 algorithms fuzzy and multi-valued logics rough sets agent oriented computation often integrated into complex hybrid solutions Intelligence technologies are used to build 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

The Puzzle of Granular Computing Bruno Apolloni, Witold Pedrycz, Simone Bassi, Dario Malchiodi, 2008-10-14 Rem tene verba sequentur Gaius J Victor Rome VI century b c The ultimate goal of this book is to bring the fundamental issues of information granularity inference tools and problem solving procedures into a coherent unified and fully operational framework The objective is to offer the reader a comprehensive self-contained and uniform exposure to the subject The strategy is to isolate some fundamental bricks of Computational Intelligence in terms of key problems and methods and discuss their implementation and underlying rationale within a well structured and rigorous conceptual framework as well as carefully related to various application facets The main assumption is that a deep understanding of the key problems will allow the reader to compose into a meaningful mosaic the puzzle pieces represented by the immense varieties of approaches present in the literature and in the computational practice All in all the main approach advocated in the monograph consists of a sequence of steps offering solid conceptual fundamentals presenting a carefully selected collection of design methodologies discussing a wealth of development guidelines and exemplifying them with a pertinent accurately selected illustrative material

Computational Intelligence Paradigms Mika Sato-Ilic, Maria Virvou, George A Tsihrintzis, Valentina Emilia Balas, Canicous Abeynayake, 2008-06-17 System designers are faced with a large set of data which has to be analysed and

processed efficiently Advanced computational intelligence paradigms present tremendous advantages by offering capabilities such as learning generalisation and robustness These capabilities help in designing complex systems which are intelligent and robust The book includes a sample of research on the innovative applications of advanced computational intelligence paradigms The characteristics of computational intelligence paradigms such as learning generalization based on learned knowledge knowledge extraction from imprecise and incomplete data are the extremely important for the implementation of intelligent machines The chapters include architectures of computational intelligence paradigms knowledge discovery pattern classification clusters support vector machines and gene linkage analysis We believe that the research on computational intelligence will simulate great interest among designers and researchers of complex systems It is important to use the fusion of various constituents of computational intelligence to offset the demerits of one paradigm by the merits of another

Computer and Information Science Roger Lee, 2008-05-07 The 7th IEEE ACIS Conference and the 2nd IEEE ACIS Workshop on e Activity IWEA 2008 featured researchers from around the world The conference organizers selected 23 outstanding papers for this volume of Springer's Studies in Computational Intelligence

Computational Intelligence in Automotive Applications Danil Prokhorov, 2008-05-28 What is computational intelligence CI Traditionally CI is understood as a collection of methods from the elds of neural networks NN fuzzy logic and evolutionary computation Various definitions and opinions exist but what belongs to CI is still being debated see e g 1 3 More recently there has been a proposal to define the CI not in terms of the tools but in terms of challenging problems to be solved 4 With this edited volume I have made an attempt to give a representative sample of contemporary CI activities in automotive applications to illustrate the state of the art While CI research and achievements in some specialized elds described see e g 5 6 this is the first volume of its kind dedicated to automotive technology As if reflecting the general lack of consensus on what constitutes the eld of CI this volume 1 illustrates automotive applications of not only neural and fuzzy computations which are considered to be the standard CI topics but also others such as decision trees graphical models Support Vector Machines SVM multi agent systems etc This book is neither an introductory text nor a comprehensive overview of all CI research in this area Hopefully as a broad and representative sample of CI activities in automotive applications it will be worth reading for both professionals and students When the details appear insufficient the reader is encouraged to consult other relevant sources provided by the chapter authors

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