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Recent Advances in Multimedia Signal Processing and Communications

Multimedia Analysis Processing And Communications Studies In Computational Intelligence

Igor Aizenberg



Multimedia Analysis Processing And Communications Studies In Computational Intelligence:

Multimedia Analysis, Processing and Communications Lin Weisi,Dacheng Tao,Janusz Kacprzyk,Zhu Li,Ebroul Izquierdo,Haohong Wang,2011-04-11 This book has brought 24 groups of experts and active researchers around the world together in image processing and analysis video processing and analysis and communications related processing to present their newest research results exchange latest experiences and insights and explore future directions in these important and rapidly evolving areas It aims at increasing the synergy between academic and industry professionals working in the related field It focuses on the state of the art research in various essential areas related to emerging technologies standards and applications on analysis processing computing and communication of multimedia information The target audience of this book is researchers and engineers as well as graduate students working in various disciplines linked to multimedia analysis processing and communications e g computer vision pattern recognition information technology image processing and artificial intelligence The book is also meant to a broader audience including practicing professionals working in image video applications such as image processing video surveillance multimedia indexing and retrieval and so on We hope that the researchers engineers students and other professionals who read this book would find it informative useful and inspirational toward their own work in one way or another *Semantic Multimedia Analysis and Processing* Evaggelos Spyrou,Dimitris Iakovidis,Phivos Mylonas,2017-12-19 Broad in scope Semantic Multimedia Analysis and Processing provides a complete reference of techniques algorithms and solutions for the design and the implementation of contemporary multimedia systems Offering a balanced global look at the latest advances in semantic indexing retrieval analysis and processing of multimedia the book features the contributions of renowned researchers from around the world Its contents are based on four fundamental thematic pillars 1 information and content retrieval 2 semantic knowledge exploitation paradigms 3 multimedia personalization and 4 human computer affective multimedia interaction Its 15 chapters cover key topics such as content creation annotation and modeling for the semantic web multimedia content understanding and efficiency and scalability Fostering a deeper understanding of a popular area of research the text Describes state of the art schemes and applications Supplies authoritative guidance on research and deployment issues Presents novel methods and applications in an informative and reproducible way Contains numerous examples illustrations and tables summarizing results from quantitative studies Considers ongoing trends and designates future challenges and research perspectives Includes bibliographic links for further exploration Uses both SI and US units Ideal for engineers and scientists specializing in the design of multimedia systems software applications and image video analysis and processing technologies Semantic Multimedia Analysis and Processing aids researchers practitioners and developers in finding innovative solutions to existing problems opening up new avenues of research in uncharted waters Computational Optimization and Applications in Engineering and Industry Xin-She Yang,Slawomir Koziel,2011-06-19 Contemporary design in engineering and industry relies

heavily on computer simulation and efficient algorithms to reduce the cost and to maximize the performance and sustainability as well as profits and energy efficiency Solving an optimization problem correctly and efficiently requires not only the right choice of optimization algorithms and simulation methods but also the proper implementation and insight into the problem of interest This book consists of ten self contained detailed case studies of real world optimization problems selected from a wide range of applications and contributed from worldwide experts who are working in these exciting areas Optimization topics and applications include gas and water supply networks oil field production optimization microwave engineering aerodynamic shape design environmental emergence modelling structural engineering waveform design for radar and communication systems parameter estimation in laser experiment and measurement engineering materials and network scheduling These case studies have been solved using a wide range of optimization techniques including particle swarm optimization genetic algorithms artificial bee colony harmony search adaptive error control derivative free pattern search surrogate based optimization variable fidelity modelling as well as various other methods and approaches This book is a practical guide to help graduates and researchers to carry out optimization for real world applications More advanced readers will also find it a helpful reference and aide memoire

Hybrid Intelligent Systems Ajith Abraham, Patrick Siarry, Vincenzo Piuri, Niketa Gandhi, Gabriella Casalino, Oscar Castillo, Patrick Hung, 2022-03-03 This book highlights the recent research on hybrid intelligent systems and their various practical applications It presents 45 selected papers from the 20th International Conference on Hybrid Intelligent Systems HIS 2021 and 16 papers from the 17th International Conference on Information Assurance and Security which was held online from December 14 to 16 2021 A premier conference in the field of artificial intelligence and machine learning applications HIS IAS 2021 brought together researchers engineers and practitioners whose work involves intelligent systems network security and their applications in industry Including contributions by authors from over 20 countries the book offers a valuable reference guide for all researchers students and practitioners in the fields of computer science and engineering

Promoting Inclusive Growth in the Fourth Industrial Revolution Buckley, Sheryl Beverley, 2020-06-19 The Fourth Industrial Revolution revolves around cyber physical systems and artificial intelligence Little is certain about this new wave of innovation which leaves industrialists and educators in the lurch without much guidance on adapting to this new digital landscape Society must become more agile and place a higher emphasis on lifelong learning to master new technologies in order to stay ahead of the changes and overcome challenges to become more globally competitive Promoting Inclusive Growth in the Fourth Industrial Revolution is a collection of innovative research that focuses on the role of formal education in preparing students for uncertain futures and for societies that are changing at great speed in terms of their abilities to drive job creation economic growth and prosperity for millions in the future Featuring coverage on a broad range of topics including economics higher education and safety and regulation this book is ideally designed for teachers managers entrepreneurs economists policymakers academicians researchers

students and professionals in the fields of human resources organizational design learning design information technology and e learning

Combinatorial Machine Learning Mikhail Moshkov, Beata Zielosko, 2011-06-29 This book explores decision trees and decision rule systems rules and reducts examines relationships among these objects and reviews the design of algorithms for construction of trees rules and reducts Includes carefully selected illustrative proofs

Computational Intelligence Methods for Sentiment Analysis in Natural Language Processing Applications D. Jude

Hemanth, 2024-01-19 Sentiment Analysis has become increasingly important in recent years for nearly all online applications Sentiment Analysis depends heavily on Artificial Intelligence AI technology wherein computational intelligence approaches aid in deriving the opinions emotions of human beings With the vast increase in Big Data computational intelligence approaches have become a necessity for Natural Language Processing and Sentiment Analysis in a wide range of decision making application areas The applications of Sentiment Analysis are enormous ranging from business to biomedical and clinical applications However the combination of AI methods and Sentiment Analysis is one of the rarest commodities in the literature The literatures either gives more importance to the application alone or to the AI CI methodology Computational Intelligence for Sentiment Analysis in Natural Language Processing Applications provides a solution to this problem through detailed technical coverage of AI based Sentiment Analysis methods for various applications The authors provide readers with an in depth look at the challenges and solutions associated with the different types of Sentiment Analysis including case studies and real world scenarios from across the globe Development of scientific and enterprise applications are covered which will aid computer scientists in building practical real world AI based Sentiment Analysis systems Includes basic concepts technical explanations and case studies for in depth explanation of the Sentiment Analysis Aids computer scientists in developing practical real world AI based Sentiment Analysis systems Provides readers with real world development applications of AI based Sentiment Analysis including transfer learning for opinion mining from pandemic medical data sarcasm detection using neural networks in human computer interaction and emotion detection using the random forest algorithm

Complex-Valued Neural Networks with Multi-Valued Neurons Igor Aizenberg, 2011-06-24 Complex Valued Neural Networks have higher functionality learn faster and generalize better than their real valued counterparts This book is devoted to the Multi Valued Neuron MVN and MVN based neural networks It contains a comprehensive observation of MVN theory its learning and applications MVN is a complex valued neuron whose inputs and output are located on the unit circle Its activation function is a function only of argument phase of the weighted sum MVN derivative free learning is based on the error correction rule A single MVN can learn those input output mappings that are non linearly separable in the real domain Such classical non linearly separable problems as XOR and Parity n are the simplest that can be learned by a single MVN Another important advantage of MVN is a proper treatment of the phase information These properties of MVN become even more remarkable when this neuron is used as a basic one in neural networks The Multilayer Neural Network based on

Multi Valued Neurons MLMVN is an MVN based feedforward neural network Its backpropagation learning algorithm is derivative free and based on the error correction rule It does not suffer from the local minima phenomenon MLMVN outperforms many other machine learning techniques in terms of learning speed network complexity and generalization capability when solving both benchmark and real world classification and prediction problems Another interesting application of MVN is its use as a basic neuron in multi state associative memories The book is addressed to those readers who develop theoretical fundamentals of neural networks and use neural networks for solving various real world problems It should also be very suitable for Ph D and graduate students pursuing their degrees in computational intelligence

Evolution in Computational Intelligence Vikrant Bhateja, Sheng-Lung Peng, Suresh Chandra Satapathy, Yu-Dong Zhang, 2020-09-08 This book presents the proceedings of 8th International Conference on Frontiers of Intelligent Computing Theory and Applications FICTA 2020 which aims to bring together researchers scientists engineers and practitioners to share new ideas and experiences in the domain of intelligent computing theories with prospective applications to various engineering disciplines The book is divided into two volumes Evolution in Computational Intelligence Volume 1 and Intelligent Data Engineering and Analytics Volume 2 Covering a broad range of topics in computational intelligence the book features papers on theoretical as well as practical aspects of areas such as ANN and genetic algorithms computer interaction intelligent control optimization evolutionary computing intelligent e learning systems machine learning mobile computing and multi agent systems As such it is a valuable reference resource for postgraduate students in various engineering disciplines

Next Generation Data Technologies for Collective Computational Intelligence Nik Bessis, Fatos Xhafa, 2011-04-28 This book focuses on next generation data technologies in support of collective and computational intelligence The book brings various next generation data technologies together to capture integrate analyze mine annotate and visualize distributed data made available from various community users in a meaningful and collaborative for the organization manner A unique perspective on collective computational intelligence is offered by embracing both theory and strategies fundamentals such as data clustering graph partitioning collaborative decision making self adaptive ant colony swarm and evolutionary agents It also covers emerging and next generation technologies in support of collective computational intelligence such as Web 2 0 social networks semantic web for data annotation knowledge representation and inference data privacy and security and enabling distributed and collaborative paradigms such as P2P Grid and Cloud Computing due to the geographically dispersed and distributed nature of the data The book aims to cover in a comprehensive manner the combinatorial effort of utilizing and integrating various next generations collaborative and distributed data technologies for computational intelligence in various scenarios The book also distinguishes itself by assessing whether utilization and integration of next generation data technologies can assist in the identification of new opportunities which may also be strategically fit for purpose

Developing Concepts in Applied Intelligence Kishan G. Mehrotra, Chilukuri

Mohan, Jae C. Oh, Pramod K. Varshney, Moonis Ali, 2011-06-09 This book contains selected papers of the IEA AIE 2011 International Conference on Industrial Engineering and Other Applications of Applied Intelligent Systems It features state of the art research on the applications of applied Intelligence techniques **Man-Machine Interactions 2** Tadeusz Czachorski, Stanislaw Kozielski, Urszula Stanczyk, 2011-08-30 Man machine interaction is the interdisciplinary field focused on a human and a machine in conjunction It is the intersection of computer science behavioural sciences social psychology ergonomics security It encompasses study design implementation and evaluation of small and large scale interacting computing hardware and software systems dedicated for human use Man machine interaction builds on supportive knowledge from both sides the machine side providing techniques methods and technologies relevant for computer graphics visualisation programming environments the human side bringing elements of communication theory linguistics social sciences models of behaviour The discipline aims to improve ways in which machines and their users interact making hardware and software systems better adapted to user s needs more usable more receptive and optimised for desired properties This monograph is the second edition in the series providing the reader with a selection of high quality papers dedicated to current progress new developments and research trends in man machine interactions area In particular the topical subdivisions of this volume include human computer interfaces robot control and navigation systems bio data analysis and mining pattern recognition for medical applications sound text and image processing design and decision support rough and fuzzy systems crisp and fuzzy clustering prediction and regression algorithms and optimisation and data management systems *Advances in Semantic Media Adaptation and Personalization* Marios C. Angelides, 2008-01-04 Realizing the growing importance of semantic adaptation and personalization of media the editors of this book brought together leading researchers and practitioners of the field to discuss the state of the art and explore emerging exciting developments This volume comprises extended versions of selected papers presented at the 1st International Workshop on Semantic Media Adaptation and Personalization SMAP 2006 which took place in Athens in December 2006 *Computer and Information Science 2011* Roger Lee, 2011-05-08 The series Studies in Computational Intelligence SCI publishes new developments and advances in the various areas of computational intelligence quickly and with a high quality The intent is to cover the theory applications and design methods of computational intelligence as embedded in the fields of engineering computer science physics and life science as well as the methodologies behind them The series contains monographs lecture notes and edited volumes in computational intelligence spanning the areas of neural networks connectionist systems genetic algorithms evolutionary computation artificial intelligence cellular automata self organizing systems soft computing fuzzy systems and hybrid intelligent systems Critical to both contributors and readers are the short publication time and world wide distribution this permits a rapid and broad dissemination of research results The purpose of the 10th IEEE ACIS International Conference on Computer and Information Science ICIS 2011 was held on May 16-18 2011 in Sanya Hainan Island China is to bring

together scientist engineers computer users students to share their experiences and exchange new ideas and research results about all aspects theory applications and tools of computer and information science and to discuss the practical challenges encountered along the way and the solutions adopted to solve them The conference organizers selected the best 20 papers from those papers accepted for presentation at the conference in order to publish them in this volume The papers were chosen based on review scores submitted by members of the program committee and underwent further rigorous rounds of review *Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing 2011*

Roger Lee, 2011-06-12 The purpose of the 12th Conference Software Engineering Artificial Intelligence Networking and Parallel Distributed Computing SNPD 2011 held on July 6 8 2011 in Sydney Australia was to bring together scientists engineers computer users and students to share their experiences and exchange new ideas and research results about all aspects theory applications and tools of computer and information sciences and to discuss the practical challenges encountered along the way and the solutions adopted to solve them The conference organizers selected 14 outstanding papers from SNPD 2011 all of which you will find in this volume of Springer's Studies in Computational Intelligence

Technology-Enhanced Systems and Tools for Collaborative Learning Scaffolding Thanasis Daradoumis, Santi Caballé, Angel Alejandro Juan Perez, Fatos Xhafa, 2012-06-07 Technology Enhanced Systems and Tools for Collaborative Learning Scaffolding is a major research theme in CSCL and CSCW research community This book presents up to date research approaches for developing technology enhanced systems and tools to support functional online collaborative learning and work settings It comprises a variety of research topics that span from the study of frameworks and infrastructures that foster collaborative learning and work through the application of different methods distributed e learning repositories content creation and customization social networks collaborative ontologies building and educational games to the use of personalization and adaptation techniques to support the development of more powerful e collaboration settings including methodologies and tools for analyzing students interactions with the aim to increase students collaborative behaviors performance and group organization Researchers will find in this book the latest trends in these research topics which gives them the opportunity to deepen further on the above issues and to extend their knowledge to other areas Academics will find practical insights on how to use conceptual and experimental approaches in their daily tasks Developers from CSCL community can be inspired and put in practice the proposed models and evaluate them for the specific purposes of their own work and context

Parallel Genetic Algorithms Gabriel Luque, Enrique Alba, 2011-06-15 This book is the result of several years of research trying to better characterize parallel genetic algorithms pGAs as a powerful tool for optimization search and learning Readers can learn how to solve complex tasks by reducing their high computational times Dealing with two scientific fields parallelism and GAs is always difficult and the book seeks at gracefully introducing from basic concepts to advanced topics The presentation is structured in three parts The first one is targeted to the algorithms

themselves discussing their components the physical parallelism and best practices in using and evaluating them A second part deals with the theory for pGAs with an eye on theory to practice issues A final third part offers a very wide study of pGAs as practical problem solvers addressing domains such as natural language processing circuits design scheduling and genomics This volume will be helpful both for researchers and practitioners The first part shows pGAs to either beginners and mature researchers looking for a unified view of the two fields GAs and parallelism The second part partially solves and also opens new investigation lines in theory of pGAs The third part can be accessed independently for readers interested in applications The result is an excellent source of information on the state of the art and future developments in parallel GAs

Next-Gen Technologies in Computational Intelligence R. Anandan,M. Senthil Kumar,Biji C. L.,Vicente García Díaz,Souvik Pal,2024-06-07 The Proceeding includes the research contribution from the International Conference on Next Gen Technologies in Computational Intelligence NGTCA 2023 held on March 24th 2023 at Vels Institute of Science Technology and Advanced Studies NGCTA 2023 is the flagship conference of the Computer Society of India Region 7 Computer Society of India CSI is the largest association of IT professionals in India CSI is a non profit organization established in 1965 and its members are committed to the advancement of theory and practice of Computer Engineering and Technology Systems The Mission of CSI is to facilitate research knowledge sharing learning and career enhancement for all categories of IT professionals while simultaneously inspiring and nurturing new entrants into the industry and helping them to integrate into the IT community At present CSI has 76chapters across India over 550 student branches with 1 00 000 plus members It serves its members through technical events seminars workshops conferences publications journals research projects competitions special interest groups awards recognitions etc Various CSI chapters conduct Research Convention every year

Information and Communication Technology for Intelligent Systems Suresh Chandra Satapathy,Amit Joshi,2018-12-30 The book gathers papers addressing state of the art research in all areas of Information and Communication Technologies and their applications in intelligent computing cloud storage data mining and software analysis It presents the outcomes of the third International Conference on Information and Communication Technology for Intelligent Systems which was held on April 6 7 2018 in Ahmedabad India Divided into two volumes the book discusses the fundamentals of various data analytics and algorithms making it a valuable resource for researchers future studies

Decision-Making Models Tofigh Allahviranloo,Witold Pedrycz,Amir Seyyedabbasi,2024-07-24 Decision Making Models A Perspective of Fuzzy Logic and Machine Learning presents the latest developments in the field of uncertain mathematics and decision science The book aims to deliver a systematic exposure to soft computing techniques in fuzzy mathematics as well as artificial intelligence in the context of real life problems and is designed to address recent techniques to solving uncertain problems encountered specifically in decision sciences Researchers professors software engineers and graduate students working in the fields of applied mathematics software engineering and artificial intelligence will find this book useful to acquire a solid foundation in

fuzzy logic and fuzzy systems optimization problems and artificial intelligence practices as well as how to analyze IoT solutions with applications and develop decision making mechanisms realized under uncertainty Introduces mathematics of intelligent systems which provides the usage of mathematical rigor such as precise definitions theorems results and proofs Provides extended and new comprehensive methods which can be used efficiently in a fuzzy environment as well as optimization problems and related fields Covers applications and elaborates on the usage of the developed methodology in various fields of industry such as software technologies biomedicine image processing and communications

Embracing the Track of Term: An Psychological Symphony within **Multimedia Analysis Processing And Communications Studies In Computational Intelligence**

In a world eaten by screens and the ceaseless chatter of fast communication, the melodic elegance and psychological symphony produced by the prepared word usually disappear in to the backdrop, eclipsed by the relentless noise and interruptions that permeate our lives. Nevertheless, nestled within the pages of **Multimedia Analysis Processing And Communications Studies In Computational Intelligence** a wonderful literary value overflowing with natural emotions, lies an immersive symphony waiting to be embraced. Constructed by an elegant musician of language, this charming masterpiece conducts readers on a psychological journey, well unraveling the hidden songs and profound influence resonating within each cautiously crafted phrase. Within the depths of this touching examination, we can investigate the book is key harmonies, analyze its enthralling writing design, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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