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Innovations in Intelligent Machines – 2

Intelligent Paradigms and Applications



Springer

Innovations In Intelligent Image Analysis Studies In Computational Intelligence

**Satyabrata Roy,Deepak
Sinwar,Thinagaran Perumal,Adam
Slowik,João Manuel R. S. Tavares**

Innovations In Intelligent Image Analysis Studies In Computational Intelligence:

Innovations in Intelligent Image Analysis Halina Kwasnicka, Lakhmi C. Jain, 2011-02-17 This book presents an introduction to new and important research in the images processing and analysis area It is hoped that this book will be useful for scientists and students involved in many aspects of image analysis The book does not attempt to cover all of the aspects of Computer Vision but the chapters do present some state of the art examples **Artificial Intelligence and Soft Computing** Leszek Rutkowski, Rafał Scherer, Marcin Korytkowski, Witold Pedrycz, Ryszard Tadeusiewicz, Jacek M. Zurada, 2019-05-27 The two volume set LNCS 11508 and 11509 constitutes the refereed proceedings of of the 18th International Conference on Artificial Intelligence and Soft Computing ICAISC 2019 held in Zakopane Poland in June 2019 The 122 revised full papers presented were carefully reviewed and selected from 333 submissions The papers included in the first volume are organized in the following five parts neural networks and their applications fuzzy systems and their applications evolutionary algorithms and their applications pattern classification artificial intelligence in modeling and simulation The papers included in the second volume are organized in the following five parts computer vision image and speech analysis bioinformatics biometrics and medical applications data mining various problems of artificial intelligence agent systems robotics and control **Revolutionizing AI with Brain-Inspired Technology: Neuromorphic Computing** Lilhore, Umesh Kumar, Sharma, Yogesh Kumar, Simaiya, Sarita, Kumar, Sandeep, Kumar, Munish, 2024-11-29 As artificial intelligence AI continues to evolve neuromorphic computing stands at the forefront of this revolution offering a transformative approach by mimicking the structure and function of the human brain This cutting edge technology is reshaping AI making it more efficient adaptive and capable of complex tasks that were once thought impossible Neuromorphic computing has the potential to revolutionize industries such as healthcare robotics and autonomous vehicles driving advancements that could redefine the future of technology and its applications in everyday life Understanding this emerging field is crucial for anyone involved in AI development or interested in the next frontier of technological innovation Revolutionizing AI with Brain Inspired Technology Neuromorphic Computing covers neuromorphic computing its real world applications and the latest advancements pushing the boundaries of AI By offering a comprehensive overview and inspiring new research this book plays a pivotal role in shaping the future of AI and its impact on various sectors This volume is an essential resource for researchers academics professionals and policymakers who seek to understand the principles and potential of neuromorphic computing as well as the societal implications of these technologies **Performance Evaluation Software** Bahadır Karasulu, Serdar Korukoglu, 2013-03-25 Performance Evaluation Software Moving Object Detection and Tracking in Videos introduces a software approach for the real time evaluation and performance comparison of the methods specializing in moving object detection and or tracking D T in video processing Digital video content analysis is an important item for multimedia content based indexing MCBi content based video retrieval CBVR and visual surveillance systems There

are some frequently used generic algorithms for video object D T in the literature such as Background Subtraction BS Continuously Adaptive Mean shift CMS Optical Flow OF etc An important problem for performance evaluation is the absence of any stable and flexible software for comparison of different algorithms In this frame we have designed and implemented the software for comparing and evaluating the well known video object D T algorithms on the same platform This software is able to compare them with the same metrics in real time and on the same platform It also works as an automatic and or semi automatic test environment in real time which uses the image and video processing essentials e g morphological operations and filters and ground truth GT XML data files charting plotting capabilities etc Along with the comprehensive literature survey of the abovementioned video object D T algorithms this book also covers the technical details of our performance benchmark software as well as a case study on people D T for the functionality of the software

Computational Intelligence Kurosh Madani, António Dourado Correia, Agostinho Rosa, Joaquim Filipe, 2011-04-08 The present book includes a set of selected extended papers from the first International Joint Conference on Computational Intelligence IJCCI 2009 held in Madeira Portugal from 5 to 7 October 2009 The conference was composed by three co located conferences The International Conference on Fuzzy Computation ICFC the International Conference on Evolutionary Computation ICEC and the International Conference on Neural Computation ICNC Recent progresses in scientific developments and applications in these three areas are reported in this book IJCCI received 231 submissions from 35 countries in all continents After a double blind paper review performed by the Program Committee only 21 submissions were accepted as full papers and thus selected for oral presentation leading to a full paper acceptance ratio of 9% Additional papers were accepted as short papers and posters A further selection was made after the Conference based also on the assessment of presentation quality and audience interest so that this book includes the extended and revised versions of the very best papers of IJCCI 2009 Commitment to high quality standards is a major concern of IJCCI that will be maintained in the next editions considering not only the stringent paper acceptance ratios but also the quality of the program committee keynote lectures participation level and logistics

New Approaches in Intelligent Image Analysis Roumen Kountchev, Kazumi Nakamatsu, 2016-05-19 This book presents an Introduction and 11 independent chapters which are devoted to various new approaches of intelligent image processing and analysis The book also presents new methods algorithms and applied systems for intelligent image processing on the following basic topics Methods for Hierarchical Image Decomposition Intelligent Digital Signal Processing and Feature Extraction Data Clustering and Visualization via Echo State Networks Clustering of Natural Images in Automatic Image Annotation Systems Control System for Remote Sensing Image Processing Tissue Segmentation of MR Brain Images Sequence Kidney Cysts Segmentation in CT Images Audio Visual Attention Models in Mobile Robots Navigation Local Adaptive Image Processing Learning Techniques for Intelligent Access Control Resolution Improvement in Acoustic Maps Each chapter is self contained with its own references Some of the chapters are devoted to the theoretical aspects while the

others are presenting the practical aspects and the analysis of the modeling of the developed algorithms in different application areas

Innovations in Computational Intelligence and Computer Vision Manoj Kumar Sharma,Vijaypal Singh Dhaka,Thinagaran Perumal,Nilanjan Dey,João Manuel R. S. Tavares,2020-09-21 This book presents high quality peer reviewed papers from the International Conference on Innovations in Computational Intelligence and Computer Vision ICICV 2020 hosted by Manipal University Jaipur Rajasthan India on January 17 19 2020 Offering a collection of innovative ideas from researchers scientists academics industry professionals and students the book covers a variety of topics such as artificial intelligence and computer vision image processing and video analysis applications and services of artificial intelligence and computer vision interdisciplinary areas combining artificial intelligence and computer vision and other innovative practices

Exploring Generative Adversarial Networks and Meta-Learning Synergies Simaiya, Sarita,Lilhore, Umesh Kumar,Sharma, Yogesh Kumar,Kumar, Sandeep,2025-04-16 Generative Adversarial Networks GANs and Meta Learning synergies can be combined and leveraged to enhance the capabilities of artificial intelligence AI systems particularly in areas such as image generation style transfer few shot learning and domain adaptation These techniques can be integrated to develop more robust and efficient AI models Ultimately understanding the theoretical foundations implementation strategies and practical applications of GANs and Meta Learning can be used to address complex real world challenges Exploring Generative Adversarial Networks and Meta Learning Synergies explores the intersection and synergy between two cutting edge AI techniques GANs and Meta Learning It showcases the potential of these synergies in advancing the field of AI and addressing complex real world challenges Covering topics such as neuromorphic computing transfer learning and visual speech recognition this book is an excellent resource for computer scientists entrepreneurs healthcare professionals professionals researchers scholars academicians and more

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

Innovations in Computational Intelligence and Computer Vision Satyabrata Roy,Deepak Sinwar,Thinagaran Perumal,Adam Slowik,João Manuel R. S. Tavares,2022-05-14 This book presents high quality peer reviewed papers from the International Conference on Innovations in Computational Intelligence and Computer Vision ICICV 2021 hosted by Manipal University Jaipur Rajasthan India on August 5 6 2021 Offering a collection of innovative ideas from researchers scientists academics industry professionals and students the book covers a variety of topics such as artificial intelligence and computer vision image processing and video analysis applications and services of artificial intelligence and computer vision interdisciplinary areas combining artificial intelligence and computer vision and other innovative practices 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 **Proceedings of the International Conference on Smart Cities -**

Volume 2 Hisham Mohamad,Mohd Hilmi Hasan,Said Jadid Abdulkadir,Nasir Shafiq,2025-07-25 This book contains papers presented at the International Conference on Smart Cities ICSC 2024 under the banner of World Engineering Science 2 Blockchain and Cybersecurity 3 Artificial Intelligence AI 4 Smart Transportation System and 5 Low Carbon Planning for Sustainable City **Mining and Control of Network Traffic by Computational Intelligence** Federico Montesino

Pouzols,Diego R. Lopez,Joaoquim Barros,2011-02-05 As other complex systems in social and natural sciences as well as in engineering the Internet is hard to understand from a technical point of view Packet switched networks defy analytical modeling The Internet is an outstanding and challenging case because of its fast development unparalleled heterogeneity and

the inherent lack of measurement and monitoring mechanisms in its core conception This monograph deals with applications of computational intelligence methods with an emphasis on fuzzy techniques to a number of current issues in measurement analysis and control of traffic in the Internet First the core building blocks of Internet Science and other related networking aspects are introduced Then data mining and control problems are addressed In the first class two issues are considered predictive modeling of traffic load as well as summarization of traffic flow measurements The second class control includes active queue management schemes for Internet routers as well as window based end to end rate and congestion control The practical hardware implementation of some of the fuzzy inference systems proposed here is also addressed While some theoretical developments are described we favor extensive evaluation of models using real world data by simulation and experiments

Advancement of Machine Intelligence in Interactive Medical Image Analysis Om Prakash Verma,Sudipta Roy,Subhash Chandra Pandey,Mamta Mittal,2019-12-11 The book discusses major technical advances and research findings in the field of machine intelligence in medical image analysis It examines the latest technologies and that have been implemented in clinical practice such as computational intelligence in computer aided diagnosis biological image analysis and computer aided surgery and therapy This book provides insights into the basic science involved in processing analysing and utilising all aspects of advanced computational intelligence in medical decision making based on medical imaging

Computational Intelligence in Cancer Diagnosis Janmenjoy Nayak,Danilo Pelusi,Bighnaraj Naik,Manohar Mishra,Khan Muhammad,David Al-Dabass,2023-04-12 Computational Intelligence in Cancer Diagnosis Progress and Challenges provides insights into the current strength and weaknesses of different applications and research findings on computational intelligence in cancer research The book improves the exchange of ideas and coherence among various computational intelligence methods and enhances the relevance and exploitation of application areas for both experienced and novice end users Topics discussed include neural networks fuzzy logic connectionist systems genetic algorithms evolutionary computation cellular automata self organizing systems soft computing fuzzy systems and hybrid intelligent systems The book s chapters are written by international experts from both cancer research oncology and computational sides to cover different aspects and make it comprehensible for readers with no background on informatics Contains updated information about advanced computational intelligence spanning the areas of neural networks fuzzy logic connectionist systems genetic algorithms evolutionary computation cellular automata self organizing systems soft computing fuzzy systems and hybrid intelligent systems in diagnosing cancer diseases Discusses several cancer types including their detection treatment and prevention Presents case studies that illustrate the applications of intelligent computing in data analysis to help readers to analyze and advance their research in cancer

Innovative Smart Healthcare and Bio-Medical Systems Abdel-Badeeh Salem,2020-12-27 Advances in smart healthcare systems SHS and artificial intelligence AI domains highlight the need for ICT systems that aim not only to improve human quality of life but improve safety too SHS bring together

concepts and methodologies from various fields such as communications and network systems computer science life sciences and healthcare The well known smart healthcare paradigms are real time monitoring devices computer aided surgery devices telemedicine devices population based care devices personalized medicine from a machine learning perspective ubiquities intelligent computing expert decision support systems Health 2 0 and Internet of Things IoT This book presents models for the deployment of intelligent computing information and networking technologies to aid in preventing disease improving the quality of care and lowering overall cost It also discusses the potential role of the AI paradigms computational intelligence and machine learning techniques which are used in developing the SHS It will provide examples of potential usage of such technology in smart healthcare and and bio medical systems It will be an important read for researchers and professionals working in smart healthcare systems as well as those working in the individual areas of networks artificial intelligence and healthcare who want to see how an interdisciplinary approach can enhance the current technology

Meta-Learning in Computational Intelligence Norbert Jankowski, Włodzisław Duch, Krzysztof Grąbczewski, 2011-06-10 Computational Intelligence CI community has developed hundreds of algorithms for intelligent data analysis but still many hard problems in computer vision signal processing or text and multimedia understanding problems that require deep learning techniques are open Modern data mining packages contain numerous modules for data acquisition pre processing feature selection and construction instance selection classification association and approximation methods optimization techniques pattern discovery clusterization visualization and post processing A large data mining package allows for billions of ways in which these modules can be combined No human expert can claim to explore and understand all possibilities in the knowledge discovery process This is where algorithms that learn how to learn come to rescue Operating in the space of all available data transformations and optimization techniques these algorithms use meta knowledge about learning processes automatically extracted from experience of solving diverse problems Inferences about transformations useful in different contexts help to construct learning algorithms that can uncover various aspects of knowledge hidden in the data Meta learning shifts the focus of the whole CI field from individual learning algorithms to the higher level of learning how to learn This book defines and reveals new theoretical and practical trends in meta learning inspiring the readers to further research in this exciting field

Hybrid Computational Intelligence Siddhartha Bhattacharyya, Václav Snášel, Indrajit Pan, Debashis De, 2019-09-30 Hybrid computational intelligent techniques are efficient in dealing with the real world problems encountered in engineering fields The primary objective of this book is to provide an exhaustive introduction as well as review of the hybrid computational intelligent paradigm with supportive case studies In addition it aims to provide a gallery of engineering applications where this computing paradigm can be effectively use Finally it focuses on the recent quantum inspired hybrid intelligence to develop intelligent solutions for the future The book also incorporates video demonstrations of each application for better understanding of the subject matter

Innovative Computing Methods and their Applications to

Engineering Problems Nadia Nedjah, Leandro Santos Coelho, Viviana Cocco Mariani, Luiza de Macedo Mourelle, 2011-05-26 The design of most modern engineering systems entails the consideration of a good trade off between the several targets requirements to be satisfied along the system life such as high reliability low redundancy and low operational costs These aspects are often in conflict with one another hence a compromise solution has to be sought Innovative computing techniques such as genetic algorithms swarm intelligence differential evolution multi objective evolutionary optimization just to name a few are of great help in founding effective and reliable solution for many engineering problems Each chapter of this book attempts to using an innovative computing technique to elegantly solve a different engineering problem Cognitive Information Systems in Management Sciences Lidia Dominika Ogiela, 2017-02-28 Cognitive Information Systems in Management Sciences summarizes the body of work in this area taking an analytical approach to interpreting the data while also providing an approach that can be used for practical implementation in the fields of computing economics and engineering Using numerous illustrative examples and following both theoretical and practical results Dr Lidia Ogiela discusses the concepts and principles of cognitive information systems the relationship between intelligent computer data analysis and how to utilize computational intelligent approaches to enhance information retrieval Real world implantation use cases round out the book with valuable scenarios covering management science computer science and engineering Indexing The books of this series are submitted to EI Compendex and SCOPUS Discusses the basic concepts and principles in cognitive information systems providing real world implementation examples Explains the relationship between intelligent computer data analysis and how to utilize computational intelligent approaches to enhance information retrieval Provides a unified structured approach that can be used to develop information flow in cognitive management systems

Unveiling the Magic of Words: A Report on "**Innovations In Intelligent Image Analysis Studies In Computational Intelligence**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Innovations In Intelligent Image Analysis Studies In Computational Intelligence**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound affect on the souls of its readers.

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Innovations In Intelligent Image Analysis Studies In Computational Intelligence Introduction

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