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Soft Computing for Image and Multimedia Data Processing

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Soft Computing for Image and Multimedia Data Processing Siddhartha Bhattacharyya, Ujjwal Maulik, 2013-10-04 Proper analysis of image and multimedia data requires efficient extraction and segmentation techniques Among the many computational intelligence approaches the soft computing paradigm is best equipped with several tools and techniques that incorporate intelligent concepts and principles This book is dedicated to object extraction image segmentation and edge detection using soft computing techniques with extensive real life application to image and multimedia data The authors start with a comprehensive tutorial on the basics of brain structure and learning and then the key soft computing techniques including evolutionary computation neural networks fuzzy sets and fuzzy logic and rough sets They then present seven chapters that detail the application of representative techniques to complex image processing tasks such as image recognition lighting control target tracking object extraction and edge detection These chapters follow a structured approach with detailed explanations of the problems solutions results and conclusions This is both a standalone textbook for graduates in computer science electrical engineering system science and information technology and a reference for researchers and engineers engaged with pattern recognition image processing and soft computing

Soft Computing for Image and Multimedia Data Processing Ethan Z. Fraser, 2015-08-26 This updated and expanded second edition of the *Soft Computing for Image and Multimedia Data Processing* provides a user friendly introduction to the subject Taking a clear structural framework it guides the reader through the subject's core elements A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts This succinct and enlightening overview is a required reading for all those interested in the subject We hope you find this book useful in shaping your future career Business Feel free to send us your inquiries related to our publications to info@pwpublishers.com

Multimedia Data Processing and Computing Suman Swarnkar, J P Patra, Tien Anh Tran, Bharat Bhushan, Santosh Biswas, 2023-11-28 This book focuses on different applications of multimedia with supervised and unsupervised data engineering in the modern world It includes AI based soft computing and machine techniques in the field of medical diagnosis biometrics networking manufacturing data science automation in electronics industries and many more relevant fields *Multimedia Data Processing and Computing* provides a complete introduction to machine learning concepts as well as practical guidance on how to use machine learning tools and techniques in real world data engineering situations It is divided into three sections In this book on multimedia data engineering and machine learning the reader will learn how to prepare inputs interpret outputs appraise discoveries and employ algorithmic strategies that are at the heart of successful data mining The chapters focus on the use of various machine learning algorithms neural network algorithms evolutionary techniques fuzzy logic techniques and deep learning techniques through projects so that the reader can easily understand not only the concept of different algorithms but also the real world implementation of the algorithms using IoT devices The

authors bring together concepts ideas paradigms tools methodologies and strategies that span both supervised and unsupervised engineering with a particular emphasis on multimedia data engineering The authors also emphasize the need for developing a foundation of machine learning expertise in order to deal with a variety of real world case studies in a variety of sectors such as biological communication systems healthcare security finance and economics among others Finally the book also presents real world case studies from machine learning ecosystems to demonstrate the necessary machine learning skills to become a successful practitioner The primary users for the book include undergraduate and postgraduate students researchers academicians specialists and practitioners in computer science and engineering

Quantum-Inspired Intelligent Systems for Multimedia Data Analysis Bhattacharyya, Siddhartha, 2018-04-13 As multimedia data advances in technology and becomes more complex the hybridization of soft computing tools allows for more robust and safe solutions in data processing and analysis Quantum Inspired Intelligent Systems for Multimedia Data Analysis provides emerging research on techniques used in multimedia information processing using intelligent paradigms including swarm intelligence neural networks and deep learning While highlighting topics such as clustering techniques neural network architecture and text data processing this publication explores the methods and applications of computational intelligent tools This book is an important resource for academics computer engineers IT professionals students and researchers seeking current research in the field of multimedia data processing and quantum intelligent systems

Proceedings of International Conference on Communication and Computational Technologies Sandeep Kumar, Saroj Hiranwal, S. D. Purohit, Mukesh Prasad, 2022-09-26 This book gathers selected papers presented at 4th International Conference on Communication and Computational Technologies ICCCT 2022 jointly organized by Soft Computing Research Society SCRS and Rajasthan Institute of Engineering Technology RIET Jaipur during February 26 27 2022 The book is a collection of state of the art research work in the cutting edge technologies related to the communication and intelligent systems The topics covered are algorithms and applications of intelligent systems informatics and applications and communication and control systems Intelligent Multimedia Data Analysis Siddhartha Bhattacharyya, Indrajit Pan, Abhijit Das, Shibakali Gupta, 2019-02-19 This volume comprises eight well versed contributed chapters devoted to report the latest findings on the intelligent approaches to multimedia data analysis Multimedia data is a combination of different discrete and continuous content forms like text audio images videos animations and interactional data At least a single continuous media in the transmitted information generates multimedia information Due to these different types of varieties multimedia data present varied degrees of uncertainties and imprecision which cannot be easy to deal by the conventional computing paradigm Soft computing technologies are quite efficient to handle the imprecision and uncertainty of the multimedia data and they are flexible enough to process the real world information Proper analysis of multimedia data finds wide applications in medical diagnosis video surveillance text annotation etc This volume is intended to be used as a

reference by undergraduate and post graduate students of the disciplines of computer science electronics and telecommunication information science and electrical engineering

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Advances in Soft Computing and Machine Learning in Image Processing Aboul Ella Hassanien, Diego Alberto Oliva, 2017-10-13 This book is a collection of the latest applications of methods from soft computing and machine learning in image processing It explores different areas ranging from image segmentation to the object recognition using complex approaches and includes the theory of the methodologies used to provide an overview of the application of these tools in image processing The material has been compiled from a scientific perspective and the book is primarily intended for undergraduate and postgraduate science engineering and computational mathematics students It can also be used for courses on artificial intelligence advanced image processing and computational intelligence and is a valuable resource for researchers in the evolutionary computation artificial intelligence and image processing communities

Official Gazette of the United States Patent and Trademark Office, 2004

Soft Computing for Security Applications G. Ranganathan, Xavier Fernando, Fuqian Shi, Youssouf El Alloui, 2021-10-25 This book features selected papers from the International Conference on Soft Computing for Security Applications ICSCS 2021 held at Dhirajlal Gandhi College of Technology Tamil Nadu India during June 2021 It covers recent advances in the field of soft computing techniques such as fuzzy logic neural network support vector machines evolutionary computation machine learning and probabilistic reasoning to solve various real time challenges The book presents innovative work by leading academics researchers and experts from industry

Intelligent Analysis of Multimedia Information Bhattacharyya, Siddhartha, Bhaumik, Hrishikesh, De, Sourav, Klepac, Goran, 2016-07-13 Multimedia represents information in novel and varied formats One of the most prevalent examples of continuous media is video Extracting underlying data from these videos can be an arduous task From video indexing surveillance and mining complex computational applications are required to process this data Intelligent Analysis of Multimedia Information is a pivotal reference source for the latest scholarly research on the implementation of innovative techniques to a broad spectrum of multimedia applications by presenting emerging methods in continuous media processing and manipulation This book offers a fresh perspective for students and researchers of information technology media professionals and programmers

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