FUZZY LOGIC AND NEURAL NETWORK HANDBOOK

C.H. CHEN

Fuzzy Logic And Neural Network Handbook Computer Engineering Series

Rose Arny

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Fuzzy Logic and Neural Network Handbook Chi-hau Chen,1996 **Fuzzy Logic and Neural Network Handbook** Chi-hau Chen,1996 A practical reference that presents concise and comprehensive reports on the major activities in fuzzy logic and neural networks with emphasis on the applications and systems of interest to computer engineers Each of the 31 chapters focuses on the most important activity of a specific topic and the chapters are organized into three parts principles and algorithms applications and architectures and systems The applications for fuzzy logic include home appliance design and manufacturing process those for neural networks include radar sonar and speech signal processing remote sensing and electrical power systems Annotation copyright by Book News Inc Portland OR Intelligent Biometric Techniques in Fingerprint and Face Recognition L.C. Jain,U. Halici,I. Hayashi,S.B. Lee,Shigeyoshi Tsutsui,2022-01-26 The tremendous world wide interest in intelligent biometric techniques in fingerprint and face recognition is fueled by the myriad of potential applications including banking and security systems and limited only by the imaginations of scientists and engineers This growing interest poses new challenges to the fields of expert systems neural networks fuzzy systems and evolutionary computing which offer the advantages of learning abilities and human like behavior Authored by a panel of international experts this book presents a thorough treatment of established and emerging applications and techniques relevant to this field Parallel and Distributed Computing Handbook Albert Y. Zomaya,1996 With over 1 000 pages and a wealth of illustrations and data tables this handbook offers readers the first information source with the scope to encompass the parallel and distributed computing revolution Written by an international team of experts the book summarizes the current state of the art interprets the most promising trends and spotlights commercial applications **Annual Meeting of the North American Fuzzy Information Processing Society--NAFIPS.** North American Fuzzy Information Processing Society. Annual Meeting,2004 **Handbook of Food and Bioprocess Modeling Techniques** Shyam S. Sablani,Ashim K. Datta,M. Shafiur Rahman,Arun S. Mujumdar,2006-12-19 With the advancement of computers the use of modeling to reduce time and expense and improve process optimization predictive capability process automation and control possibilities is now an integral part of food science and engineering New technology and ease of use expands the range of techniques that scientists and researchers have at the Subject Guide to Books in Print ,2001 *The ... IEEE International Conference on Fuzzy Systems Proceedings* ,1998 **Handbook of Dynamic System Modeling** Paul A. Fishwick,2007-06-01 The topic of dynamic models tends to be splintered across various disciplines making it difficult to uniformly study the subject Moreover the models have a variety of representations from traditional mathematical notations to diagrammatic and immersive depictions Collecting all of these expressions of dynamic models the Handbook of Dynamic Sy **VHDL Techniques, Experiments, and Caveats** Joseph Pick,1996 VHDL VHSIC Hardware Description Language is the market leading digital circuit simulation software system Now a VHDL expert offers readers the benefits of his in depth experience as a VHDL

modeler and seminar leader Packed with a huge array of examples this book presents a pragmatic picture of VHDL that takes full account of its possibilities and its limitations *American Book Publishing Record* ,2004 Compressive Sensing of Earth Observations C.H. Chen,2017-05-25 Future remote sensing systems will make extensive use of Compressive Sensing CS as it becomes more integrated into the system design with increased high resolution sensor developments and the rising earth observation data generated each year Written by leading experts in the field Compressive Sensing of Earth Observations provides a comprehensive and balanced coverage of the theory and applications of CS in all aspects of earth observations This work covers a myriad of practical aspects such as the use of CS in detection of human vital signs in a cluttered environment and the corresponding modeling of rib cage breathing Readers are also presented with three different applications of CS to the ISAR imaging problem which includes image reconstruction from compressed data resolution enhancement and image reconstruction from incomplete data Using Neural Networks for Risk Assessment in Internal Auditing Sridhar Ramamoorti,Richard O. Traver,Michael W. Godsell,1998 **A Handbook of Information Technology** Bubu Bhuyan,2007 This handbook on information technology aims to bring together views of professors industry experts researchers and student learners from across all barriers to a common platform for the discussion and propagation of knowledge on the latest breakthroughs in the fields of information technology **Process and Equipment Control in Microelectronic Manufacturing** ,1999 **Whitaker's Books in Print** ,1998 **Signal Processing for Remote Sensing** C.H. Chen,2008 Continuing in the footsteps of the pioneering first edition Signal and Image Processing for Remote Sensing Second Edition explores the most up to date signal and image processing methods for dealing with remote sensing problems Although most data from satellites are in image form signal processing can contribute significantly in extracting information from remotely sensed waveforms or time series data This book combines both providing a unique balance between the role of signal processing and image processing Featuring contributions from worldwide experts this book continues to emphasize mathematical approaches Not limited to satellite data it also considers signals and images from hydroacoustic seismic microwave and other sensors Chapters cover important topics in signal and image processing and discuss techniques for dealing with remote sensing problems Each chapter offers an introduction to the topic before delving into research results making the book accessible to a broad audience This second edition reflects the considerable advances that have occurred in the field with 23 of 27 chapters being new or entirely rewritten Coverage includes new mathematical developments such as compressive sensing empirical mode decomposition and sparse representation as well as new component analysis methods such as non negative matrix and tensor factorization The book also presents new experimental results on SAR and hyperspectral image processing The emphasis is on mathematical techniques that will far outlast the rapidly changing sensor software and hardware technologies Written for industrial and academic researchers and graduate students alike this book helps readers connect the dots in image and signal processing New in This Edition The second

edition includes four chapters from the first edition plus 23 new or entirely rewritten chapters and 190 new figures New topics covered include Compressive sensing The mixed pixel problem with hyperspectral images Hyperspectral image HSI target detection and classification based on sparse representation An ISAR technique for refocusing moving targets in SAR images Empirical mode decomposition for signal processing Feature extraction for classification of remote sensing signals and images Active learning methods in classification of remote sensing images Signal subspace identification of hyperspectral data Wavelet based multi hyperspectral image restoration and fusion The second edition is not intended to replace the first edition entirely and readers are encouraged to read both editions of the book for a more complete picture of signal and image processing in remote sensing See Signal and Image Processing for Remote Sensing CRC Press 2006

Bowker's Complete Video Directory, 1998 ,1998 *The Cumulative Book Index* ,1999 **Forthcoming Books** Rose Arny,2001

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