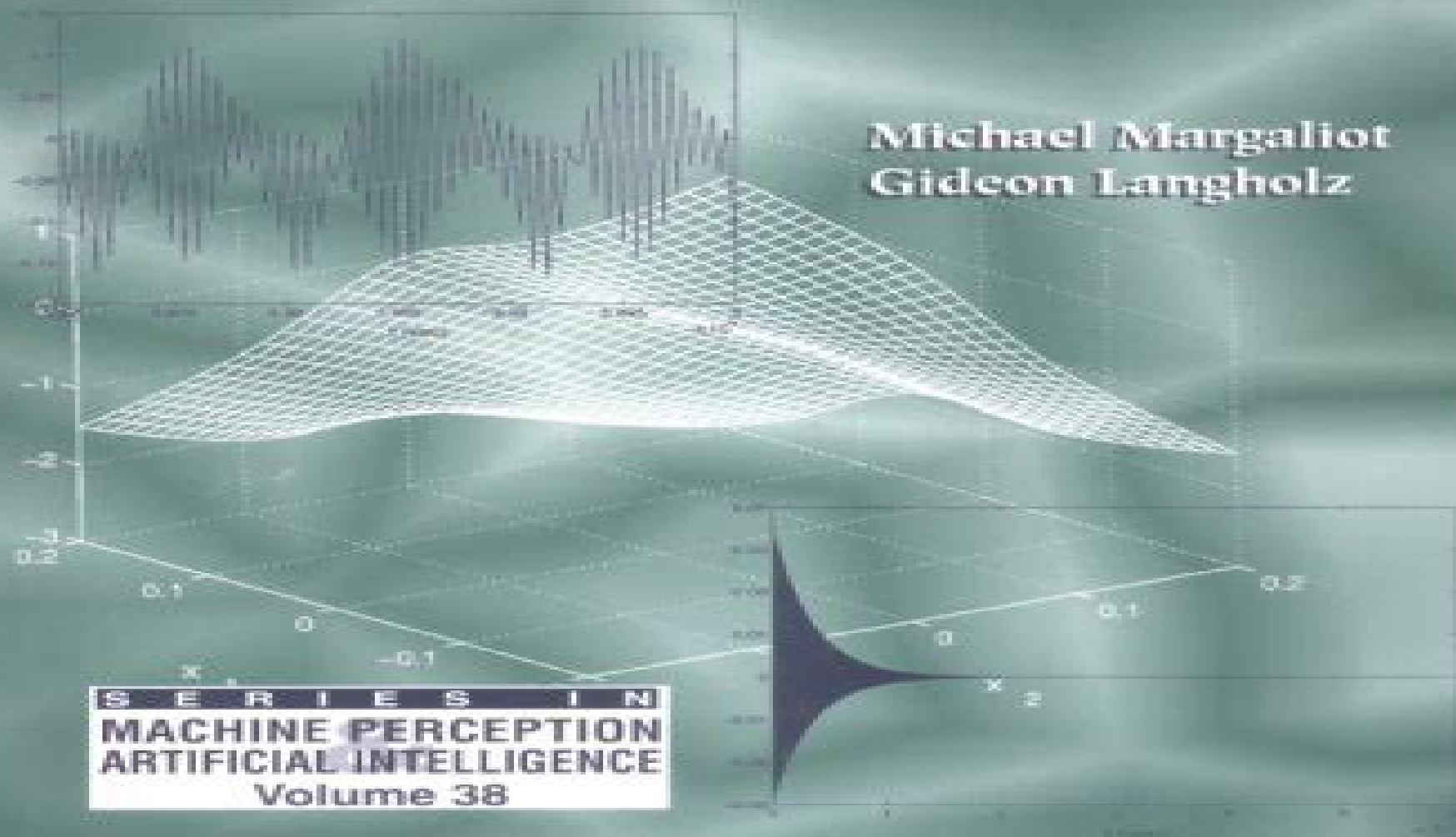


NEW APPROACHES TO FUZZY MODELING AND CONTROL DESIGN AND ANALYSIS

Michael Margaliot
Gideon Langholz



S E R I E S I N
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Volume 38

New Approaches To Fuzzy Modeling And Control Design And Analysis

Roman Wölfel



New Approaches To Fuzzy Modeling And Control Design And Analysis:

New Approaches To Fuzzy Modeling And Control: Design And Analysis Gideon Langholz, Michael Margaliot, 2000-07-04 Fuzzy logic has found applications in an incredibly wide range of areas in the relatively short time since its conception. It was invented by Lotfi Zadeh, a leading systems expert, so it is perhaps not surprising that system theory is one of the areas in which fuzzy logic has made a profound impact. Fuzzy logic combined with the paradigm of computing with words allows the use and manipulation of human knowledge and reasoning in the modeling and control of dynamical systems. This monograph presents new approaches to the construction of fuzzy models and to the design of fuzzy controllers. The emphasis is on developing methods that allow systematic design on the one hand and mathematical analysis of the resulting system on the other. In particular, the methods described allow rigorous analysis of the stability and robustness of the systems, which are crucial issues in control theory. The first theme of the book is a new approach to the systematic design and analysis of fuzzy controllers given linguistic information concerning the plant and the control objective. The new approach, fuzzy Lyapunov synthesis, is a computing with words version of the well-known classical Lyapunov synthesis method. The second theme of the book is to show that fuzzy controllers are in fact solutions of a nonlinear optimal control problem. The authors formulate a novel nonlinear optimal control problem consisting of a new state space model referred to as the hyperbolic state space model and a new cost functional and show that its solution is a fuzzy controller. This leads to a new framework for fuzzy modeling and control that combines the advantages of the fuzzy world, such as linguistic interpretability, and of classical optimal control theory, such as guaranteed stability and robustness. [The Industrial Electronics Handbook - Five Volume Set](#) Bogdan M. Wilamowski, J. David Irwin, 2011-03-04 Industrial electronics systems govern so many different functions that vary in complexity from the operation of relatively simple applications, such as electric motors, to that of more complicated machines and systems, including robots and entire fabrication processes. The Industrial Electronics Handbook, Second Edition, combines traditional and new [Intelligent Systems](#) Bogdan M. Wilamowski, J. David Irwin, 2018-10-03 The Industrial Electronics Handbook, Second Edition, combines traditional and newer, more specialized knowledge that will help industrial electronics engineers develop practical solutions for the design and implementation of high power applications. Embracing the broad technological scope of the field, this collection explores fundamental areas, including analog and digital circuits, electronics, electromagnetic machines, signal processing, and industrial control and communications systems. It also facilitates the use of intelligent systems, such as neural networks, fuzzy systems, and evolutionary methods, in terms of a hierarchical structure that makes factory control and supervision more efficient by addressing the needs of all production components. Enhancing its value, this fully updated collection presents research and global trends as published in the IEEE Transactions on Industrial Electronics Journal, one of the largest and most respected publications in the field. As intelligent systems continue to replace and sometimes outperform human intelligence in decision-making processes, they have made

substantial contributions to the solution of very complex problems As a result the field of computational intelligence has branched out in several directions For instance artificial neural networks can learn how to classify patterns such as images or sequences of events and effectively model complex nonlinear systems Simple and easy to implement fuzzy systems can be applied to successful modeling and system control Illustrating how these and other tools help engineers model nonlinear system behavior determine and evaluate system parameters and ensure overall system control Intelligent Systems Addresses various aspects of neural networks and fuzzy systems Focuses on system optimization covering new techniques such as evolutionary methods swarm and ant colony optimizations Discusses several applications that deal with methods of computational intelligence Other volumes in the set Fundamentals of Industrial Electronics Power Electronics and Motor Drives Control and Mechatronics Industrial Communication Systems

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Robust Control Design 2003 Sergio Bittanti, Patrizio Colaneri, 2004

Granular Computing Witold

Pedrycz, 2001-06-06 Granular Computing is concerned with constructing and processing carried out at the level of information granules Using information granules we comprehend the world and interact with it no matter which intelligent endeavor this may involve The landscape of granular computing is immensely rich and involves set theory interval mathematics fuzzy sets rough sets random sets linked together in a highly synergetic environment This volume is a first comprehensive treatment of this emerging paradigm and embraces its fundamentals underlying methodological framework and a sound algorithmic environment The panoply of applications covered includes system identification telecommunications linguistics and music processing Written by experts in the field this volume will appeal to all developing intelligent systems either working at the methodological level or interested in detailed system realization **Joint 9th IFSA World Congress and 20th NAFIPS International Conference** Michael H. Smith, W. A. Gruver, Lawrence O. Hall, 2001 **Machine Learning and Granular Computing: A Synergistic Design Environment** Witold Pedrycz, Shyi-Ming Chen, 2024-09-21 This volume provides the reader with a comprehensive and up to date treatise positioned at the junction of the areas of Machine Learning ML and Granular Computing GrC ML offers a wealth of architectures and learning methods Granular Computing addresses useful aspects of abstraction and knowledge representation that are of importance in the advanced design of ML architectures In unison ML and GrC support advances of the fundamental learning paradigm As built upon synergy this unified environment focuses on a spectrum of methodological and algorithmic issues discusses implementations and elaborates on applications The chapters bring forward recent developments showing ways of designing synergistic and coherently structured ML GrC environment The book will be of interest to a broad audience including researchers and practitioners active in the area of ML or GrC and interested in following its timely trends and new pursuits International Journal of Applied Mathematics and Computer Science, 2006 **Proceedings of the ... Midwest Symposium on Circuits and Systems**, 2003 **Fuzzy Model Identification** Hans Hellendoorn, Dimitar Driankov, 1997 Introduction General overview Fuzzy identification from a grey box modeling point of view Clustering methods Constructing fuzzy models by product space clustering Identification of Takagi Sugeno fuzzy models via clustering and Hough transform Rapid prototyping of fuzzy models based on hierarchical clustering Neural networks Fuzzy identification using methods of intelligent data analysis Identification of singleton fuzzy models via fuzzy hyperrectangular composite NN Genetic algorithms Identification of linguistic fuzzy models by means of genetic algorithms Optimization of fuzzy models by global numeric optimization Artificial intelligence Identification of linguistic fuzzy models based on learning **SICE 2002** Keisoku Jidō Seigyo Gakkai (Japan). Gakujutsu Kōenkai, 2002 **Control and Intelligent Systems**, 1998 **Journal of Scientific and Industrial Research**, 2006 International Aerospace Abstracts, 1999 Symbolic and Quantitative Approaches to Reasoning and Uncertainty, 2005 **Conference Record**, 2000 **IEEE International Conference on Intelligent Transportation Systems Proceedings**, 2003

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