



*mathematics*

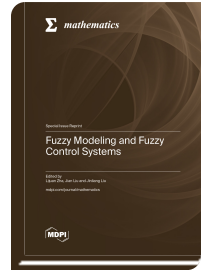


*Special Issue Reprint*

## **Fuzzy Modeling and Fuzzy Control Systems**

[www.mdpi.com/books/reprint/9971](http://www.mdpi.com/books/reprint/9971)

Edited by  
Lijuan Zha  
Jian Liu  
Jinliang Liu



ISBN 978-3-7258-2165-5 (Hardback)  
ISBN 978-3-7258-2166-2 (PDF)

In recent years, with the rapid development of advanced machine learning, artificial intelligence, robot technology, networked control methods, deep space exploration, and other fields, successful applications in fuzzy control systems or even nonlinear dynamics systems (FCS/NDSs) have emerged. The modeling, analysis, and optimal control of FCS/NDSs have received considerable attention in the last two decades. As usual, the design and analysis of classic dynamics systems rely on deterministic mathematical models. However, dynamical systems are riddled with nonlinearity, complexity and time-delay properties, which make it difficult to obtain system optimization. Certain linearization assumptions are often employed to obtain the optimal theoretical closed-form solution in FCS/NDSs, which are inconsistent with the real engineering applications. Therefore, these advanced nonlinear sciences motivate us to explore new solutions to the problems abundant in FCS/NDSs. For this Special Issue, 10 papers have been peer-reviewed and accepted for publication. These papers can be categorized into nonlinear intelligent control, and the readers can read a brief description of each paper in the preface.



Order Your Print Copy  
You can order print copies at  
[www.mdpi.com/books/reprint/9971](http://www.mdpi.com/books/reprint/9971)

MDPI Books offers quality open access book publishing to promote the exchange of ideas and knowledge in a globalized world. MDPI Books encompasses all the benefits of open access – high availability and visibility, as well as wide and rapid dissemination. With MDPI Books, you can complement the digital version of your work with a high quality printed counterpart.



### **Open Access**

Your scholarly work is accessible worldwide without any restrictions. All authors retain the copyright for their work distributed under the terms of the Creative Commons Attribution License.



### **Author Focus**

Authors and editors profit from MDPI's over two decades of experience in open access publishing, our customized personal support throughout the entire publication process, and competitive processing charges as well as unique contributor discounts on book purchases.



### **High Quality & Rapid Publication**

MDPI ensures a thorough review for all published items and provides a fast publication procedure. State-of-the-art research and time-sensitive topics are released with a minimum amount of delay.



### **High Visibility**

Due to our global network and well-known channel partners, we ensure maximum visibility and broad dissemination. Title information of books is sent to international indexing databases and archives, such as the Directory of Open Access Books (DOAB), and the Verzeichnis Lieferbarer Bücher (VLB).



### **Print on Demand and Multiple Formats**

MDPI Books are available for purchase and to read online at any time. Our print-on-demand service offers a sustainable, cost-effective and fast way to publish MDPI Books printed versions.