



Fuzzy Systems: Modeling and Control (The Handbooks of Fuzzy Sets)

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The analysis and control of complex systems have been the main motivation for the emergence of fuzzy set theory since its inception. It is also a major research field where many applications, especially industrial ones, have made fuzzy logic famous.

This unique handbook is devoted to an extensive, organized, and up-to-date presentation of fuzzy systems engineering methods. The book includes detailed material and extensive bibliographies, written by leading experts in the field, on topics such as:

- Use of fuzzy logic in various control systems.
- Fuzzy rule-based modeling and its universal approximation properties.
- Learning and tuning techniques for fuzzy models, using neural networks and genetic algorithms.
- Fuzzy control methods, including issues such as stability analysis and design techniques, as well as the relationship with traditional linear control.
- Fuzzy sets relation to the study of chaotic systems, and the fuzzy extension of set-valued approaches to systems modeling through the use of differential inclusions.

Fuzzy Systems: Modeling and Control is part of *The Handbooks of Fuzzy Sets Series*. The series provides a complete picture of contemporary fuzzy set theory and its applications. This volume is a key reference for systems engineers and scientists seeking a guide to the vast amount of literature in fuzzy logic modeling and control.

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