Fuzzy Logic: Intelligence, Control, and Information

By John Yen, Reza Langari

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 Highlights motivations and benefits of employing fuzzy logic in control engineering and information systems.   Providing equal emphasis on theoretical foundations and practical issues, this book features fuzzy logic concepts and techniques in intelligent systems, control, and information technology. Uses Fuzzy Logic Toolbox for MATLAB™ to demonstrate exemplar applications and to develop hands-on exercises.   Introduces the connection between fuzzy logic and related ideas, methods, and theories developed in other disciplines (e.g., artificial intelligence, probability theory, control, model identification, etc.).

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Editorial Review

Review
``Superb. This one-word assessment summarizes my view of "Fuzzy Logic: Intelligence, Control and Information," (or FL:ICI for short) -- a long-awaited text by Professors John Yen and Reza Langari. Written with authority and high expository skill, FL: ICI reflects the extensive experience of its authors in both teaching and research in fuzzy logic and related fields. ... The historical notes, the bibliographies and the exercises contribute substantially to the reader-friendliness of FL:ICI and enhance its value as a text.

In sum, FL:ICI is in every respect an outstanding contribution to the literature of fuzzy logic and soft computing, and is a must for anyone who is interested in the conception, design and utilization of information/intelligent/control systems. Professors Yen and Langari deserve our thanks and congratulations."
-- *Lotfi A. Zadeh, Professor, University of California, Berkeley*

From the Back Cover

Providing equal emphasis on theoretical foundations and practical issues, this book features fuzzy logic concepts and techniques in intelligent systems, control, and information technology.

FEATURES

- Comprehensive and up-to-date coverage.
- Provides examples and exercises that are related to real world problems.
- Uses Fuzzy Logic Toolbox for MATLAB™ to demonstrate exemplar applications and to develop hands-on exercises.
- Provides design guidelines and design methods for developing fuzzy logic applications.
- Provides a modern perspective of the fuzzy logic technology.
- Introduces core concepts and techniques gently in two steps.
- Provides relevant background materials that encompass a wide range of disciplines.
- Introduces the connection between fuzzy logic and related ideas, methods, and theories developed in other disciplines (e.g., artificial intelligence, probability theory, control, model identification, etc.).
- Summarizes key concepts at the end of each chapter.
- Highlights motivations and benefits of employing fuzzy logic in control engineering and information systems.
- Discussion of open research issues and their implications.
- A chapter is devoted to the subject of "How to design a fuzzy system." In addition, several other chapters (e.g., the chapters on fuzzy model identification and neuro-fuzzy systems) introduce techniques for automating decisions in the design process using training data (i.e., examples) and learning algorithms.
- Advanced topics are separated from the basic material in the chapter that immediately follows.

About the Author
Professors John Yen and Reza Langari are on the faculty of Texas A&M University and co-founder of the Center for Fuzzy Logic, Robotics, and Intelligent Systems. They are the co-editors of the IEEE Press Book ``Industrial Applications of Fuzzy Logic and Intelligent Systems". They are also the General Chair and the Program Chair of The 9th IEEE International Conference on Fuzzy Systems (FUZZIEEE 2000).

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