Introduction To Type-2 Fuzzy Logic Control: Theory and Applications (IEEE Press Series on Computational Intelligence)

Jerry Mendel, Hani Hagras, Woei-Wan Tan, William W. Melek, Hao Ying

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An introductory book that provides theoretical, practical, and application coverage of the emerging field of type-2 fuzzy logic control

Until recently, little was known about type-2 fuzzy controllers due to the lack of basic calculation methods available for type-2 fuzzy sets and logic—and many different aspects of type-2 fuzzy control still needed to be investigated in order to advance this new and powerful technology. This self-contained reference covers everything readers need to know about the growing field.

Written with an educational focus in mind, *Introduction to Type-2 Fuzzy Logic Control: Theory and Applications* uses a coherent structure and uniform mathematical notations to link chapters that are closely related, reflecting the book's central themes: analysis and design of type-2 fuzzy control systems. The book includes worked examples, experiment and simulation results, and comprehensive reference materials. The book also offers downloadable computer programs from an associated website.

Presented by world-class leaders in type-2 fuzzy logic control, *Introduction to Type-2 Fuzzy Logic Control*:

• Is useful for any technical person interested in learning type-2 fuzzy control theory and its applications
• Offers experiment and simulation results via downloadable computer programs
• Features type-2 fuzzy logic background chapters to make the book self-contained
• Provides an extensive literature survey on both fuzzy logic and related type-2 fuzzy control

Introduction to Type-2 Fuzzy Logic Control is an easy-to-read reference book suitable for engineers, researchers, and graduate students who want to gain deep insight into type-2 fuzzy logic control.

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