



# Uncertain Rule-Based Fuzzy Logic Systems: Introduction and New Directions

*Jerry M. Mendel*

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**Uncertain Rule-Based Fuzzy Logic Systems: Introduction and New Directions** Jerry M. Mendel

\*Type-2 fuzzy logic: Breakthrough techniques for modeling uncertainty \*Key applications: digital mobile communications, computer networking, and video traffic classification \*Detailed case studies: Forecasting time series and knowledge mining \*Contains 90+ worked examples, 110+ figures, and brief introductory primers on fuzzy logic and fuzzy sets Breakthrough fuzzy logic techniques for handling real-world uncertainty. The world is full of uncertainty that classical fuzzy logic cant model. Now, however, theres an approach to fuzzy logic that can model uncertainty: type-2 fuzzy logic. In this book, the developer of type-2 fuzzy logic demonstrates how it overcomes the limitations of classical fuzzy logic, enabling a wide range of applications from digital mobile communications to knowledge mining. Dr. Jerry Mendel presents a bottom-up approach that begins by introducing traditional type-1 fuzzy logic, explains how it can be modified to handle uncertainty, and, finally, adds layers of complexity to handle increasingly sophisticated applications. Coverage includes: \*The sources of uncertainty and the role of membership functions \*Type-2 fuzzy sets: operations, properties, and centro

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