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Introduction To Type-2 Fuzzy Logic Control: Theory and Applications. Jerry Mendel, Hani Hagraas, Woei-Wan Tan, William W. Melek, Hao Ying. Written by world-class leaders in type-2 fuzzy logic control, this book offers a self-contained reference for both researchers and students. The coverage provides both background and an extensive literature survey on fuzzy logic and related type-2 fuzzy control.

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A type-2 fuzzy set lets us incorporate uncertainty about the membership function into fuzzy set theory, and is a way to

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address the above criticism of type-1 fuzzy sets head-on. And, if there is no uncertainty, then a type-2 fuzzy set reduces to a type-1 fuzzy set, which is analogous to probability reducing to determinism when unpredictability vanishes.

Type-2 fuzzy sets and systems - Wikipedia  
Introduction. We describe in this book, hybrid intelligent systems based mainly on type-2 fuzzy logic for intelligent control. Hybrid intelligent systems combine several intelligent computing paradigms, including fuzzy logic, and bio-inspired optimization algorithms, which can be used to produce powerful automatic control systems.

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By a process termed collapsing the type-2 fuzzy set is converted into a type-1 fuzzy set which, as an approximation to the representative embedded set, is known as the representative embedded set approximation. This type-1 fuzzy set is easily defuzzified to give the defuzzified value of the original type-2 fuzzy set.

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To begun with, it reviews type 1 fuzzy sets (T1 FSs) because T2 FSs build upon T1 FSs. The chapter provides a lot of information about interval type 2 fuzzy sets (IT2 FSs). It then provides an introduction to the general type 2 fuzzy sets (GT2 FSs) because such sets are the wave of the future.

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