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	Titolo	Introduction to type-2 fuzzy sets and systems / / Jerry M. Mendel
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	Descrizione fisica	1 online resource (1 video file, 60 mins) : color illustrations
	Disciplina	621.382
	Soggetti	Telecommunication - Equipment and supplies
		Wireless communication systems
		Spread spectrum communications
		Microwave communication systems
		Signal processing
		Telecommunications
		Electrical & Computer Engineering
		Engineering & Applied Sciences
	Lingua di pubblicazione	Inglese
	Formato	Videoregistrazione
	Livello bibliografico	Monografia
	Note generali	Bibliographic Level Mode of Issuance: Monograph
	Sommario/riassunto	This course will provide an introduction to and an overview of type-2 fuzzy sets (T2 FSs) and systems. It will locate type-2 fuzzy sets and systems in an educational taxonomy, so that the student will appreciate from the onset the importance of studying such fuzzy sets; explain what a T2 FS is, how it is different from a type-1 FS, and why it is needed; provide careful definitions and pictures of the new terminology of T2 FSs; explain the importance of interval type-2 fuzzy sets over more general T2 FSs; explain important representations for a T2 FS (one is very good for computing, and another is very good for quickly developing the structure of the solution to a new theoretical problem); explain how T2 FSs are used in a rule-based system (a fuzzy logic system-FLS); describe the detailed computations that are used for an interval T2 FLS, relying mostly on graphical pictures; compare those computations with their type-1 counterparts; explain the major

obstacle to using a T2 FLS in a real-time application and how that obstacle has been overcome; and wrap up the course with a plug for the applications course and a short reading list.