1.	Record Nr.	UNINA9910322659403321
	Autore	Straccia Umberto
	Titolo	Foundations of fuzzy logic and semantic web languages / / Umberto Straccia
	Pubbl/distr/stampa	Taylor & Francis, 2013 Boca Raton, FL : , : CRC Press LLC, , 2013 ©2014
	ISBN	1-000-55669-7 1-000-55678-6 0-429-10961-X 1-4398-5347-9
	Edizione	[1st edition]
	Descrizione fisica	1 online resource (382 p.)
	Collana	Chapman & Hall/CRC studies in informatics series
	Disciplina	025.0427
	Soggetti	Semantic Web Fuzzy logic
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Description based upon print version of record.
	Nota di bibliografia	Includes bibliographical references.
	Nota di contenuto	Front Cover; Dedication; Contents; Preface; List of Figures; Chapter 1 The Quest for Fuzzy Logic in Semantic Web Languages; Part I Semantic Web Languages Basics; Chapter 2 Introduction; Chapter 3 Resource Description Language RDF & RDF Schema; Chapter 4 Web Ontology Language OWL; Chapter 5 Rule Languages; Chapter 6 Query Languages for SWL-based Knowledge Bases; Part II Fuzzy Logics and Semantic Web Languages; Chapter 7 Introduction; Chapter 8 Fuzzy Sets and Mathematical Fuzzy Logic Basics; Chapter 9 Fuzzy RDF & RDFS; Chapter 10 Fuzzy OWL; Chapter 11 Fuzzy Rule Languages; Part III Appendices Appendix A RDFS Semantics and Inference RulesAppendix B From OWL to Description Logics; Appendix CA Tableau Calculus for SHIFg; Appendix D From RIF-Core to Datalog; Appendix E Basic Logics to Deal with Uncertain Statements; Appendix F OR-based Inference Rules for P (D); Appendix G Fuzzy SPARQL: a Query Language for Fuzzy RDFS Graphs; Appendix H Tableau Calculi for Fuzzy SHIFg; Bibliography; Back Cover
	Sommario/riassunto	Managing vagueness/fuzziness is starting to play an important role in

Semantic Web research, with a large number of research efforts underway. Foundations of Fuzzy Logic and Semantic Web Languages provides a rigorous and succinct account of the mathematical methods and tools used for representing and reasoning with fuzzy information within Semantic Web languages. The book focuses on the three main streams of Semantic Web languages: Triple languages RDF and RDFSConceptual languages OWL and OWL 2, and their profiles OWL EL, OWL QL, and OWL RLRule-based languages, such as SWRL and RIFWritten by a