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Record Nr.	UNINA9910983057503321
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Titolo	Improving Decision Making Using Semantic Web Technologies / / by Tek Raj Chhetri
Pubbl/distr/stampa	Wiesbaden : , : Springer Fachmedien Wiesbaden : , : Imprint : Springer Vieweg, , 2025
ISBN	9783658458775
	3658458771
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (301 pages)
Collana	Computer Science and Engineering (German Language) Series
Disciplina	004
Soggetti	Computer science
	Artificial intelligence
	Computer Science
	Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Publications -- Bibliography.
Sommario/riassunto	As technology becomes integral to our lives, its influence on decision making in smart cities, healthcare, and manufacturing is undeniable. However, challenges such as limited contextual awareness, domain knowledge, explainability of machine learning (ML), and issues of interoperability, data quality, and GDPR (General Data Protection Regulation) compliance in data sharing hinder effective decision making. This book addresses these critical challenges by exploring how the synergy of semantic technologies (SW), like ontologies and knowledge graphs, with or without ML, can overcome these challenges to improve decision making. Through real-world case studies in data sharing, manufacturing, and agriculture, it offers theoretical and practical insights and guidelines of how SW can enhance prediction accuracy, integrate domain knowledge, support ML explainability, and tackle interoperability, data quality, and GDPR challenges. About the author Dr. Tek Raj Chhetri is currently a postdoctoral associate at the Senseable Intelligence Group at the McGovern Institute for Brain Research at the Massachusetts Institute of Technology, United States.

He is the founder and director of CAIR-Nepal (Center for Artificial Intelligence Research Nepal), an artificial intelligence research organization in Nepal. He conducts research in artificial intelligence, knowledge graphs, data privacy, and Internet of Things (IoT) data sharing.