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ISBN	1-63081-088-6
Descrizione fisica	1 online resource (267 pages) : illustrations
Collana	Artech House intelligence and information operations series
Disciplina	005.7
Soggetti	Multisensor data fusion Internet of things Big data Cooperating objects (Computer systems) Integration (Theory of knowledge) Data mining
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	General context of cyber physical and social systems -- Situation awareness and decision support -- Information and uncertainty : definitions and representations -- Information characterization and representations -- Information fusion cells and processing strategies -- A holonic processing of information fusion cella -- FIAT-based decision support for complex environments -- FIAT prospective research and future work -- Summary.
Sommario/riassunto	The Internet of Things (IoT) and Big Data are hot topics in the world of intelligence operations and information gathering. This first-of-its-kind volume reveals the benefits of addressing these topics with the integration of Fusion of Information and Analytics Technologies (FIAT). The book explains how FIAT is materialized into decision support systems that are capable of supporting the prognosis, diagnosis, and prescriptive tasks within complex systems and organizations. This unique resource offers keen insight into how complex systems emerge from the interrelation of social and cognitive information, cyber and physical worlds, and the various models of decision-making and

situational awareness. Practitioners also discover the central notions of analytics and information fusion. Moreover the book introduces propos such as integration through a FIAT computational model and applications at the systems level. This book concludes with a list of prospective research activities that can contribute towards the required FIAT integration for critical application domains such as: energy, health, transport and defense and security.