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	Descrizione fisica	1 online resource (XIV, 82 p. 49 illus., 40 illus. in color.)
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	Disciplina	307.760285 629.89
	Soggetti	Cooperating objects (Computer systems) Control engineering Robotics Automation Telecommunication Computer networks Cyber-Physical Systems Control, Robotics, Automation Communications Engineering, Networks Computer Communication Networks
	Lingua di pubblicazione	Inglese
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	Livello bibliografico	Monografia
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	Introduction -- Internet of Things (IoT) with Industry 4.0 -- Advanced Controllers in Internet of Things -- Internet of Things with Integrated Control Applications in Smart City Paradigm -- Agriculture, Public Safety, Women and Child Care & Welfare -- Healthcare, Water Management, Government and Administration -- Environmental Impact, Energy with Management of Information Systems -- Safety, Education, Transportation Systems with Advanced Controllers -- Conclusion.
	Sommario/riassunto	This book provides basic knowledge of advanced microcontrollers associated with large systems and devices. The book determines the feasibility of the advanced controllers from an Industry 4.0 perspective,

which is associated with Integrated Internet of Things (IIoT) when developing larger smart cities. Also, it describes potential applications, key areas of Industry 4.0, and controlling applications with microcontrollers. Chapters include IoT with integrated control applications in smart city paradigm; agriculture, public safety, women and child care & welfare; healthcare, water management, government and administration; environmental impact, energy with management of information systems; and safety, education, transportation systems with advanced controllers. Presents applications of advanced microcontrollers that can control large systems and devices; Includes tools to make Industry 4.0 implementation easier using microcontrollers; Describes the design of Integrated Internet of Things (IIoT).