Intelligent Cities: Enabling Tools and Technology

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The emergence of highly promising and potent technologies has enabled the transition of ordinary objects into smart artifacts?providing wider connectivity of digitized entities that can facilitate the building of connected cities. This book provides readers with a solid foundation on the latest technologies and tools required to develop and enhance smart cities around the world.

The book begins by examining the rise of the cloud as the fundamental technology for establishing and sustaining smart cities and enterprises. Explaining the principal technologies and platform solutions for implementing intelligent cities, the book details the role of various technologies, standards, protocols, and tools in establishing flexible homes and the buildings of the future.

- Examines IT platforms and tools from various product vendors
- Considers service-oriented architecture and event-driven architecture for smart city applications
- Explains how to leverage big data analytics for smart city enhancement and improved decision making
- Includes case studies of intelligent cities, smart homes, buildings, transports, healthcare systems, and airports

The authors explore the convergence of cloud computing and enterprise architecture and present valuable information on next-generation cloud computing. They also cover the various architectural types, including enterprise-scale integration, security, management, and governance.

The book concludes by explaining the various security requirements of intelligent cities as well as the threats and vulnerabilities of the various components that form the basis of the intelligent city framework, including cloud, big data, Internet of Things, and mobile technologies.

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