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Soggetti	Electrical engineering Computational intelligence Application software Power electronics Control engineering System theory Communications Engineering, Networks Computational Intelligence Information Systems Applications (incl. Internet) Power Electronics, Electrical Machines and Networks Control and Systems Theory Systems Theory, Control
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Nota di contenuto	Introduction -- Part I Architecture and Applications -- Envisioned Network Architectures IoT Applications -- A Measurement Study of Campus WiFi Networks using WiFiTracer -- People as Sensors Towards a Human-machine Cooperation Approach in Monitoring Landslides in the Three Gorges Reservoir Region, China -- Two Major Applications in Vehicular Ad Hoc Networks -- Concurrency and Synchronization in Structured Cyber Physical Systems -- Part II Security and Privacy -- Survey on Access Control Models Feasible in Cyber-Physical Systems -- Security Challenges and Concerns of Internet of Things (IoT) -- Cyber-Physical System Security Controls: A review -- Conclusion.

This book provides an overview of recent innovations and achievements in the broad areas of cyber-physical systems (CPS), including architecture, networking, systems, applications, security, and privacy. The book discusses various new CPS technologies from diverse aspects to enable higher level of innovation towards intelligent life. The book provides insight to the future integration, coordination and interaction between the physical world, the information world, and human beings. The book features contributions from renowned researchers and engineers, who discuss key issues from various perspectives, presenting opinions and recent CPS-related achievements. Investigates how to advance the development of cyber-physical systems Provides a joint consideration of other newly emerged technologies and concepts in relation to CPS like cloud computing, big data, fog computing, and crowd sourcing Includes topics related to CPS such as architecture, system, networking, application, algorithm, security and privacy.
