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Nota di contenuto	Efficient Communication Protocol for Programmable Matter -- IoRT-based Distributed Algorithm for Robust Team Formation and its Application to Smart City Operation -- A WSN and Vision based Energy Efficient and Smart Surveillance System using Computer Vision and AI at Edge -- Mitigating Resource Depletion and Message Sequencing Attacks in SCADA Systems -- API Descriptions for the Web of Things -- SmartDriveAuth: Enhancing Vehicle Security with Continuous Driver Authentication via Wearable PPG Sensors and Deep Learning -- A Vision Transformer Based Indoor Localization Using CSI Signals in IoT Networks -- Deep Reinforcement Learning for VNF Placement and Chaining of Cloud Network Services -- Optimising Water Quality Classification in Aquaculture Using a New Parameter Pre-selection Approach -- Topic Analysis of Japanese Sentences Using Sentence Embeddings -- Performance Improvement of Semantic Search Using Sentence Embeddings by Dimensionality Reduction -- A Fuzzy-based System for Assessment of Performance Error in VANETs -- Carbon

Credits Price Prediction Model (CCPPM) -- Experimental Exploration of the Power of Conditional GAN in Image Reconstruction-based Adversarial Attack Defense Strategies -- Framework for Cognitive Self-Healing of Real Broadband Networks -- Honey Bee Inspired Routing Algorithm for Sparse Unstructured P2P Networks.

Sommario/riassunto

Networks of today are going through a rapid evolution and there are many emerging areas of information networking and their applications. Heterogeneous networking supported by recent technological advances in low power wireless communications along with silicon integration of various functionalities such as sensing, communications, intelligence, and actuations are emerging as a critically important disruptive computer class based on a new platform, networking structure and interface that enable novel, low-cost and high-volume applications. Several of such applications have been difficult to realize because of many interconnection problems. To fulfill their large range of applications different kinds of networks need to collaborate and wired and next generation wireless systems should be integrated in order to develop high performance computing solutions to problems arising from the complexities of these networks. This book covers the theory, design and applications of computer networks, distributed computing, and information systems. The aim of the book "Advanced Information Networking and Applications" is to provide latest research findings, innovative research results, methods and development techniques from both theoretical and practical perspectives related to the emerging areas of information networking and applications.
