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Nota di contenuto	Intro -- Welcome Message from AINA-2023 Organizers -- Organization -- AINA-2023 Keynote Talks -- Blockchain and IoT Integration: Challenges and Future Directions -- Toward Sustainable, Intelligent, Secure, Fully Programmable, and Multisensory (SENSUOUS) Networks -- Contents -- Integration and Evaluation of Blockchain Consensus Algorithms for IoT Environments -- 1 Introduction -- 2 Background -- 2.1 Blockchain -- 2.2 Consensus Mechanisms -- 3 Integration of Consensus Algorithms and Evaluations -- 3.1 Integrations -- 3.2 Evaluation -- 4 Related Work -- 5 Conclusions and Future Work -- References -- Nexus: Proxy Service for the Web of Things -- 1 Introduction -- 2 Background and Related Work -- 3 Design and Architecture -- 3.1 Nexus Architecture -- 3.2 Front-End -- 3.3 Security -- 3.4 IoT Management -- 3.5 Directory -- 3.6 Publication and Subscription -- 4 Evaluation -- 5 Conclusions and Future Work -- References -- ABIDI: A Reference Architecture for Reliable Industrial Internet of Things -- 1 Introduction -- 2 The ABIDI Framework -- 3 A Building Management Use Case -- 4 Key Research Challenges -- 5 Conclusions -- References -- DASA: An Efficient Data Aggregation

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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 interconnections 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 volume covers the theory, design and applications of computer networks, distributed computing and information systems. The aim of the volume “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.