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Titolo	Wireless Networking for Moving Objects [[electronic resource] ] : Protocols, Architectures, Tools, Services and Applications // edited by Ivan Ganchev, Marília Curado, Andreas Kassler
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Descrizione fisica	1 online resource (XVI, 301 p. 96 illus.)
Collana	Computer Communication Networks and Telecommunications ; ; 8611
Disciplina	621.384
Soggetti	Computer communication systems Computer Communication Networks
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Part I: Communications models, concepts and paradigms.- Techno-Business Model based on a Personal IPv6 Address for Wireless Networks of Moving Objects.- Information-Centric Networking in Mobile and Opportunistic Networks.- User-centric Networking: Cooperation in Wireless Networks -- Cooperative Relaying for Wireless Local Area Networks.-Clustering for Networks of Moving Objects.- New Trends in Mobility Modelling and Handover Prediction.- Throughput Analysis in CSMA/CA Networks using Continuous Time Markov Networks: A Tutorial -- Part II: Approaches, schemes, mechanisms and protocols. - Energy-awareness in Multihop Routing.- An Overview of Energy Consumption in IEEE 802.11 Access Networks.- Resource Management and Cell Planning in LTE Systems.-Improving video QoE in Unmanned Aerial Vehicles using an adaptive FEC mechanism -- Part III: M2M Aspects of WiNeMO.- Group Communication in Machine-to-Machine Environments.- Simulation Based Studies of Machine-to-Machine Communications.- Communication and Security in Machine-to-Machine Systems.- MHT-based Mechanism for Certificate Revocation in VANETs.
Sommario/riassunto	Wireless networks of moving objects have drawn significant attention recently. These types of networks consist of a number of autonomous or semi-autonomous wireless nodes/objects moving with diverse

patterns and speeds while communicating via several radio interfaces simultaneously. To overcome current shortcomings, a number of research challenges have to be addressed in this area, ranging from initial conceptualization and modelling, to protocols and architectures engineering, and development of suitable tools, applications and services, and to the elaboration of realistic use-case scenarios by taking into account corresponding societal and economic aspects. By applying a systematic approach the objective of this book is to assess the state of the art and consolidate the main research results achieved in this area. It was prepared as the Final Publication of the COST Action IC0906 "Wireless Networking for Moving Objects (WiNeMO)". The book contains 15 chapters and is a show-case of the main outcomes of the action in line with its scientific goals. The book will serve as a valuable reference for undergraduate students, post-graduate students, educators, faculty members, researchers, engineers, and research strategists working in this field.

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