

Preface

Ad hoc networks, which include a variety of autonomous networks for specific purposes, are used in a wide range of applications. These networks were originally envisioned as collections of autonomous mobile or stationary nodes that dynamically self-configure into a wireless network without relying on any existing network infrastructure or centralized administration. With the significant advances in the last decade, the concept of ad hoc networks now covers an even broader scope, referring to many types of autonomous wireless networks designed and deployed for a specific task or function, such as wireless sensor networks, vehicular networks, mobile robot networks, home networks, and so on. Also, new challenges arise with the interconnection of these heterogeneous networks and transversal aspects such as energy, security, privacy, etc. While it is essential to advance theoretical research on fundamental and practical research on efficient policies, algorithms, and protocols, it is also critical to develop useful applications, experimental prototypes, and real-world deployments to achieve immediate impact on society for the success of this wireless networking paradigm.

The annual International Conference on Ad Hoc Networks (AdHocNets) aims at providing a forum to bring together researchers from academia as well as practitioners from industry and government to meet and exchange ideas and recent research work on all aspects of ad hoc networks. As the seventh edition of this event, AdHocNets 2015 was successfully held in San Remo, during September 1-2, 2015. We received high-quality submissions from many parts of the world, including Europe, North America, South America, and Asia. After a rigorous review process, 17 regular and three invited papers were included in the technical program. The technical program also included two keynote talks and five technical sessions, which presented recent advances in various aspects of ad hoc networks. In particular, the program featured two keynotes addressed by Prof. Mario Gerla from UCLA and Dr. Thomas Watteyne from Inria, France. This volume of LNICST includes all the technical papers that were presented at AdHocNets 2015. We hope that it will become a useful reference for researchers and practitioners working in the area of ad hoc networks.

September 2015

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Ad Hoc Networks

7th International Conference, AdHocHets 2015, San Remo, Italy, September 1-2, 2015. Proceedings
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(Eds.)

2015, XI, 263 p. 110 illus. in color., Softcover

ISBN: 978-3-319-25066-3