Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering

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Preface

We are living in exciting times, where the developments and achievements of information communication are not only shaking up some of the ways we are living and working, but they already became a key pillar of any competitive economy and inclusive society and we are just at the beginning of a revolution of the sector which will continue to change the way citizens, companies, governments, and public institutions operate and interact.

The 8th International Wireless Internet Conference - Symposium on Wireless and Vehicular Communication was held last year in the stimulating city of Lisbon. The committee had organized exciting programs for The 8th International Wireless Internet Conference with conference themes of “Wireless and Vehicular Communication.” These themes cover the latest topics such as 5G mobile communications, Internet of Things (IoT), super Wi-Fi, and V2V/V2I. Moreover, on a technical note, following the gradual roll-out of the Third-generation Partnership Project’s Long-Term Evolution (3GPP LTE) initiative, research is now well under way toward the definition of next-generation standards. The 3G High Speed Packet Access (HSPA) system also continues to evolve further toward increased-rate multi-carrier solutions using carrier aggregation, with the goal of maintaining the current momentum of increasing the achievable bitrate. In the past, each consecutive decade brought about a factor of ten bitrate improvement, as observed for the second-, third-, and fourth-generation wireless systems. Naturally, the associated three orders of magnitude throughput improvement were achieved at the cost of a substantially increased power consumption. In the light of the escalating energy prices, this motivated the design of “green radios,” aiming for more power-efficient designs - all in all, an exciting era for our community.

The technical program consists of 12 tracks. The conference track chairs have selected 60 outstanding papers for the oral sessions. In addition to the oral sessions, we present one workshop and two keynote presentations. The creation of this impressive program would not have been possible without the voluntary support from an outstanding team of colleagues that we thank sincerely.

Special thanks go to the conference track chairs who have organized a very efficient and smooth review and session organization process, as well as the workshop. We also thank all the Technical Program Committee members and reviewers for their professional and timely review of technical contributions. Of course, making a successful technical conference would not have been possible without the participation from authors, to whom we express our gratitude for presenting and sharing their ideas and contributions with our community. We also thank the EAI Organizing Committee for their support. We express sincere appreciation to all of our colleagues for their
concerted efforts, to all of the authors who submitted their valuable research contributions that will lead to very fruitful discussions, and to all of the participant’s efforts to make this conference a success.

November 2014

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