

# Preface

The EAI International Conference on 5G for Future Wireless Networks (5GWN) is a comprehensive conference that focuses on 5G wireless networks. The main objective of 5GWN 2017, the first conference in the series, was to address and deliberate on the latest technical status and recent trends in the research and application of 5G technologies.

5GWN 2017 provided an opportunity for scientists, engineers, industrialists, scholars, and other professionals from all over the world to interact and exchange new ideas and research outcomes in related fields and to pursue possibilities for future collaboration. The conference is also aimed at gathering research contributions from the field of 5G wireless networks that address the major opportunities and challenges in applying 5G technologies to the understanding and designing of modern network systems, with an emphasis on both new analytical techniques and novel application scenarios.

The proceedings contain 64 papers that were selected from a total of 135 papers submitted to the conference. In the proceedings, readers can gather cutting-edge knowledge about the future 5G wireless networks. Each paper was presented, orally or as a poster, in the frame of the new analytical techniques and novel application scenarios, with topics on 5G networks including: non-orthogonal multiple access techniques; cognitive radio; channel modeling; D2D; performance analysis; cloud/CRAN-based 5G Networks; small cells; game theory; software-defined networks; heterogeneous networks; 5G ultra dense networks; self-organizing networks; network function virtualization; backhaul/fronthaul; resource allocation; big data; vehicular networks; massive MIMO; IoT; energy harvesting; radio resource management; caching; unlicensed spectrum (LTE-U); network slicing; full duplex techniques; and MmWave techniques.

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