

Message from the Technical Program Chairs

The design of wireless networks offers challenges not present in fixed networks: the offered traffic and the network topology depend of the mobility of the nodes; moreover, the network capacity may be time-varying and transmission interference from neighboring nodes must be considered. The designs should not only be functioning correctly, they are also expected to optimize the performance with respect to many criteria, such as energy efficiency, quality of service, and capacity utilization. The WiOpt symposium brings together researchers and practitioners working on the optimization of wireless networks from different perspectives, such as performance analysis, protocol design, wireless communication, and optimization theory. The reported research improves the state-of-the-art in design, analysis, dimensioning and operations of wireless networks. The contributions also provide insights into theoretical aspects as well as providing practical methods and tools.

This year, the symposium has attracted 89 submissions from 32 different countries, of which 39 papers have been selected for presentation in the symposium. The selection relied on the efforts of a strong and dedicated technical program committee that personally reviewed all assigned papers. A few outside reviewers assisted TPC members or provided additional expert tiebreaking reviews. The high standard of reviewing and the diverse set of submissions have enabled the formation of a program of excellent contributions that covers the broad scope of this research field.

The program includes sessions devoted to ad hoc and sensor networks, MAC protocols and scheduling algorithms, resource sharing and network control, routing, security, as well as MIMO, diversity and power control. We are honored to have Prof. R. Srikant from the University of Illinois at Urbana-Champaign as keynote speaker. The title of his talk is "Distributed Algorithms for Resource Allocation in Wireless Networks." Prof. Srikant is a distinguished researcher in our community and he represents personally the blend of networking, wireless communication, control theory and information theory that WiOpt brings together.

In order to provide room for new topics in this rapidly developing field, we also include five adjunct workshops into the WiOpt symposium format. They are dedicated to measurements in wireless networks (WiNMee/WiTMemo), resource allocation (RAWNET), spatial stochastic modeling (SPASWIN), communication, cooperation and competition (WNC³) and control over communication channels (CONCOM). We hope that you have a chance to visit these workshops as well.

Running a symposium requires dedication and much work from many people. We want to thank all our devoted colleagues in the organizing committee, the technical program committee, and all the local volunteers who made this symposium possible. We hope that you enjoy the presentations at the symposium, its proceedings, and the discussions with colleagues in the wonderful venue at Limassol, Cyprus.

Leonidas Georgiadis and Gunnar Karlsson
Technical Program Committee Chairs