Welcome

On behalf of the Information Technology Society (ITG) in the VDE, of the Institute of Telecommunications of Technische Universität (TU) Wien, of the IEEE Austria Section, of EURASIP, and of the organizing committee, it is our pleasure and honor to welcome you to the 23rd edition of the International ITG Workshop on Smart Antennas (WSA 2019). Following its 2018 edition in Bochum, Germany, this years' workshop takes place in Vienna, Austria, and is hosted by Technische Universität (TU) Wien. Our objective is to continue, accelerate, and broaden the momentum gained through this successfully established series of ITG workshops, by hosting world's leading experts in wireless communications, multiple antenna techniques, signal processing and information theory for communications.

Vienna is located in the heart of Europe and is Austria's culturally vibrant and famous capital city. TU Wien is among the most successful technical universities in Europe and is Austria's largest scientific-technical research and educational institution. For more than 200 years, TU Wien has been a place of research, teaching and learning in the service of progress.

This years' two and a half day workshop features keynote talks from academic as well as industrial experts, oral and poster sessions of the technical contributions to the workshop, and, building on its success at the last two WSAs, a demo session exhibiting wireless technology testbeds and computer simulation platforms for 5G and beyond wireless communications. We are looking forward to discussing exciting recent research advances and sharing novel research ideas during the social events of the workshop.

We would like to thank the paper authors for contributing a healthy number of high quality papers. Our special gratitude goes to the technical program committee members, the keynote speakers from academia and industry, the demo session contributors, and the reviewers for their thorough evaluation of the contributions. We are thankful for the financial contributions by our corporate sponsors: National Instruments, ANSYS, Huawei and X.test. Furthermore, we would like to thank VDE, ITG, IEEE Austria Section, EURASIP and Mondial AG, in particular Carina Stephanek, for their help in organizing this event.

We hope that you will find this program interesting and that you will enjoy participating in WSA 2019!

Stefan Schwarz (General Chair)

Robert Langwieser and Philipp Svoboda (TPC Chairs)

Norbert Görtz, Christoph Mecklenbräuker and Markus Rupp (Honorary Chairs)