

## Technical Program Committee

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The Fraunhofer Institute for Integrated Circuits IIS is the largest institute in the Fraunhofer-Gesellschaft and known around the world thanks to its significant contribution to the development of the mp3 and MPEG-AAC audio coding standards.

## ITG – The Information Technology Society within the VDE

The Information Technology Society – ITG (founded in 1954) is an interdisciplinary scientific society embedded in the multidisciplinary VDE network. The society serves as a link between experts in the business community, public administration, the academic world, and research institutions. Its members coordinate and focus Germany's broad competence in the field of information technology and maintain close professional contact with their international colleagues. The ITG promotes research and applications in this key technology, and its efficient use in the fields of data and communications technology, communications systems, environmental protection, medicine and transportation. ITG activities also encourage the internationalization of professional work and support of new generations of engineers.

Organized into nine specialist divisions covering the entire spectrum of information technology, the ITG has over 100 boards of experts. Around 11,000 VDE members belong to the ITG, and over 1,200 experts work on a voluntary basis in the various ITG bodies. The ITG management is supported in their work by a scientific council.

[www.vde.de/itg](http://www.vde.de/itg)

## Call For Papers

18<sup>th</sup> International   
**WSA** 2014  
ITG Workshop on Smart Antennas  
12-13 March 2014, Erlangen, Germany

**ITG** INFORMATION TECHNOLOGY  
SOCIETY WITHIN VDE

**VDE** ASSOCIATION FOR ELECTRICAL, ELECTRONIC  
& INFORMATION TECHNOLOGIES



The 18<sup>th</sup> International ITG Workshop on Smart Antennas (WSA 2014) provides a forum for presentation of the most recent research on smart antennas. The objective is to continue, accelerate, and broaden the momentum already gained through a series of ITG workshops since 1996. Specific topics of interest include, but are not limited to:

- ♦ Antenna Array Design
- ♦ Beamforming and Multi-Antenna Techniques
- ♦ Space-Time Coding & Processing
- ♦ Advanced Receivers and Signal Processing
- ♦ Channel Modeling
- ♦ Multi-Antenna Channel Measurements
- ♦ Hardware and Software Implementation
- ♦ Field Trials and Demonstrators
- ♦ Energy Efficiency of Multi-Antenna Systems
- ♦ Multi-Carrier and Multi-User Transmission
- ♦ Precoding and Limited Feedback
- ♦ Relaying and Multi-Hop
- ♦ Cooperative and Sensor Networks
- ♦ Cross-layer Optimization
- ♦ Millimeter Waves
- ♦ Massive MIMO

There will be oral as well as poster presentations. The accepted and presented papers will be published in workshop proceedings and will be available in IEEE Xplore.

## Important Dates

<b>Abstract</b> (min. 2 pages A4)	<b>November 15, 2013</b>
<b>Acceptance Notification</b>	<b>December 19, 2013</b>
<b>Camera Ready</b> (max. 8 pages A4)	<b>February 1, 2014</b>

## Venue

Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU) is one of the largest universities in Germany. Research and teaching at FAU is found at the interface between Natural Sciences, Engineering, Medicine, Cultural Studies, Humanities, Social Sciences, Educational Sciences, Economics, and Law. In the spirit of the FAU motto "Advance through Networks", the Faculties and Departments work together to create a virtually unparalleled range of interdisciplinary degree programmes.

The Fraunhofer Institute for Integrated Circuits IIS, headquartered in Erlangen, was established in 1985. Today, with additional locations in Nuremberg, Fürth, Ilmenau, Würzburg, Dresden, Bamberg, Deggendorf and Coburg, Fraunhofer IIS is known, among others, around the world thanks to its significant contribution to the development of the mp3 and MPEG-AAC audio coding standards. The Institute's staff of 780 scientists develops software, microelectronic circuits, devices and systems, including complete industrial automation solutions, for applications in the fields of microelectronics and information and communication technology.

## Organization

### Local Organization

**Friedrich-Alexander-Universität Erlangen-Nürnberg**

**Chair of Information Transmission**

Prof. Dr. Johannes Huber

Fabian Mruck,

E-Mail: [wsa2014@int.de](mailto:wsa2014@int.de)

jointly with

**Fraunhofer-Institut für Integrierte Schaltungen IIS**

Prof. Dr. Albert Heuberger, Executive Director;  
Susanne Ruhland

### Steering Committee

Prof. Dr. Josef A. Nossek,

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