CALL FOR PAPERS

Wave Propagation and Scattering in Communications, Microwave Remote Sensing, Navigation, and High-Speed Digital Data Transmission

February 10 – 13, 2015
Hotel Chemnitzer Hof
Chemnitz, Germany

Scientific Conference organised by:
ITG Section 7.5 (Wave Propagation)
ITG Fachausschuss 7.5 (Wellenausbreitung)

Timetable
Notification of Acceptance 15. Jan. 2015
Submission of Full Paper 15. July. 2015

Abstracts, nominally, not exceeding one A4 page, should be sent in electronic form (PDF – document as e-mail attachment) to:

WFMN15@etit.tu-chemnitz.de

The abstracts should contain the title of the paper, author list, postal address, e-mail contact, and phone number of the corresponding author. The appropriate session topic(s) should be indicated.

The scientific meeting will be held at Günnewig Hotel Chemnitzer Hof, Chemnitz, Germany.

Conference fees are anticipated to be:
280,- EUR
This includes the participation at the meeting with coffee-breaks, meeting program, book of abstracts and post meeting CD-ROM with full papers. The fee for the one-day tutorial workshop (10th of February, 2015) is anticipated to be 50,- EUR.

For further information on the scientific meeting, please visit the conference website:
www.vde.com/itgVeranstaltungen
or
www.tu-chemnitz.de/etit/hftet/konferenz/wfmn15

Contact Information:
Prof. Dr. Madhu Chandra
Ms. Jana Vießmann
Chair of Microwave Engineering and Electromagnetic Theory
Faculty of Electrical Engineering and Information Technology
Technische Universität Chemnitz
Reichenhainer Str. 70
09107 Chemnitz
Phone: +49 371 531 24340
Fax: +49 371 531 24349
E-Mail: WFMN15@etit.tu-chemnitz.de
Call for Papers

The ITG section 7.5 „Wellenausbreitung (Wave Propagation)“ within the VDE (German Association for Electrical, Electronic & Information Technologies) is organising a scientific meeting on Wave Propagation and Scattering in Communications, Microwave Remote Sensing, Navigation, and High-Speed Digital Data Transmission to be held during 10-13 February 2015 in Chemnitz, Germany.

The scientific meeting will address scientific and technological aspects of wave propagation and scattering in communications, microwave remote sensing, navigation and other information systems.

The conference programme will include a series of review and keynote presentations suited for both young scientists and experts. Additionally, on the side-lines of the meeting, on 10th February, a pre-conference tutorial workshop on Polarisation and Waveform Diversity Methods in Multi-parameter Radar Applications will be held on 10th of February, 2014. The tutorial-workshop will cover modern aspects of multi-parameter radars and remote sensing applications. The main idea behind the tutorial workshop is to address the ‘knowledge needs’ of newcomers in the field. The workshop presentations will thus be tailored to the requirements of young scientists from diverse backgrounds, engineering and non-engineering alike. The workshop should also appeal to an established engineer who would like to refresh or revisit the fundamentals in the field of radar systems and propagation of radar signals.

The following topics from Communication, Remote Sensing, and Navigation will be considered.

1. Microwave Propagation in Communication and Microwave Systems
   - Satellite Communication
   - Multi-Path Propagation
   - Indoor Propagation
   - Propagation Effects in Remote Sensing
   - Propagation in Metamaterials
   - Ionospheric Propagation
   - Urban Communication
   - Microwave Measurements in Propagation

2. Applications of Microwave Sensors
   - Microwave and Optical Radar Polarimetry
   - Bistatic and Multi-static Radar
   - Polarimetric and Multi-static Interferometry
   - Multi-Parameter Weather Radar/Lidar Systems
   - Automotive and Airborne Radars
   - Radar System Calibration
   - Biological Effects of EM-Radiation
   - Waveform Radar Methods
   - Antenna Design and Measurements

3. Propagation for High-Speed Digital Data Transmission
   - Design of Serial Data Transmission lines
   - Modelling of High-Speed Data Transmission
   - Electromagnetic Compatibility for High-Speed Data Systems

The programme committee seeks contributions in above and related areas for presentation in English.

Conference Organisation
General Chairman
Prof. Dr. rer. nat. Wolfgang Keydel
Scientific Committee
Prof. Dr. rer. nat. Madhu Chandra
TU Chemnitz
Prof. Dr.-Ing. Gerd Wanielik
TU Chemnitz
Prof. Dr.-Ing. Thomas Kürner
TU Braunschweig

Conference Committee
Dr. Ute Böttger, DLR
Dr.-Ing. Andreas Danklmayer, FHR
Dipl. Ing. Ferdinand Gerhardes, Anritsu GmbH
Dr. Frank Gekat, SELEX Systems Integration GmbH
Dr. Achim Hornbostel, DLR
Dipl.-Ing. Frank Busch, Keysight Technologies, Inc.
Dr.-Ing. Tobias Otto, OHB System AG
Dr. Achim Quellmalz, Südwestrundfunk
Dr.-Ing. Volker Schanz, ITG, VDE
Dipl.-Ing. Jörg Steinert, DWD
Dipl.-Ing. Patrick Tracksdorf, DWD
Dr. Ralf Zichner, Fraunhofer ENAS
Prof. Dr.-Ing. Uwe Siart, TU München
Dipl.-Ing. Jörg Pamp, RWTH Aachen
Dr.-Ing. Narathep Phruksahiran, Chulachomklao Royal Military Academy Thailand