

EuCAP 2013

7TH EUROPEAN CONFERENCE ON ANTENNAS AND PROPAGATION

CALL FOR PAPERS

EuCAP 2013, 8–12 APRIL
GOTHENBURG, SWEDEN
www.eucap2013.org

THE SWEDISH EXHIBITION & CONGRESS CENTRE

EuCAP 2013 is organized yearly by The European Association on Antennas and Propagation (EurAAP) since 2006.

Chalmers University of Technology welcomes EuCAP 2013 to Gothenburg (Göteborg), the microwave center of Sweden with well-known antenna companies such as Ericsson, Saab, RUAG Space and Bluetest; an ideal and unique meeting place in Europe for academia and industry to exchange the latest research in Antennas and Propagation.

Venue in city center – close to the sea

Gothenburg is a world-class meeting and events city, located on the beautiful west coast of Sweden, easily accessible from around the world, close to the sea with a stunning archipelago and outstanding restaurants. The Swedish Exhibition & Congress Center is located in the city center with all kinds of restaurants, entertainment and shops within walking distance. The in-house Hotel Gothia Towers is the largest in Scandinavia, and several more hotels are just around the corner. During the social events you will be well entertained, among others by the colorful popular Chalmers ballet, and at the banquet you can enjoy a spectacular Swedish ABBA pop music show.

International rendezvous for Antennas and Propagation:

EuCAP is supported by the top-level associations in Antennas and Propagation, thus fostering true collaboration at European and global levels. AMTA Europe will support the organization of the exhibition, sessions and industrial activities.

The conference combines a diversity of formats:

- Plenary sessions with invited keynote papers
- Oral sessions (both convened and contributed)
- Posters (presented in same central area as the exhibition)
- Workshops, short courses
- Exhibition (in large hall in the center of everything)

Application tracks

For the first time, EuCAP will gather sessions according to time-continuous application tracks. This will increase interactions between academia and industry. Therefore, authors will be invited during submission to eventually allocate their contributions to one or more applications (initial list below), enabling the formation of applications tracks in the final program. Contributions not targeting a particular application will be allocated to regular sessions all along the week.

Best paper awards and travel grants:

EuCAP will honor the authors of the best papers within each of the areas of measurements, propagation, antenna theory and antenna design. ESoA (European School of Antennas) will recognize the best papers presented by students. There will also be given travel grants to authors of high-quality papers from developing countries.

Conference/exhibition service:

Eucap2013@realize-events.de +49 89 660799 420 (Jennifer Kohnert)



Chalmers student's ballet



Gothenburg city harbour



IMPORTANT DEADLINES

Submission of Abstract: 14 October 2012 **Notification of Acceptance:** 14 December 2012 **Submission of Final Paper:** 15 January 2013

EuCAP 2013 CHAIRS

Conference Chair:

Per-Simon Kildal
EurAAP Chair:
Juan R. Mosig
Vice Chairs:
Per Ingvarson
Gunnar Elgered
Mats Andersson
Jan Carlsson
Mikael Persson

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Next Edition Chair:

Peter de Maagt

Financial Chair:

Bruno Casali

Exhibition & Sponsorship Chairs:

Carlo Rizzo
Mats Andersson

Convened Session

Chairs:

Thomas Kürner

Marta Martinez Vazquez

Short Courses Chair:

Eva Rajo-Iglesias

Awards & Grants

Chairs:

Stefano Maci
Anja Skrivervik

Invited Papers Chairs:

Guy Vandenbosch

Cyril Luxey

Application Track

Chairs:

Dirk Heberling

Björn Johannisson

Cyril Mangenot

Local AMTA Chair:

Jan Zackrisson

AMTA Liaison:

Carlo Rizzo

IEEE Liaison:

W. Ross Stone

URSI Liaison:

Gerhard Kristensson

Publication &

Dissemination Chair:

Jan Carlsson

Local Organizing Chair:

Staffan Sjödin

Local Organizing Team:

Marianna Ivashina

Gunilla Brocker

AUTHOR INSTRUCTIONS:

The authors must first submit an abstract of 2 A4 pages, using the templates that can be downloaded from www.eucap2013.org. The abstract must contain enough information for the TPC and reviewers to judge the originality and quality of the work.

The abstract must be uploaded via EDAS® conference management system. During the uploading process the authors will be asked to categorize their papers in terms of the conference topics and application tracks, both listed below.

After acceptance, the authors will be asked to submit either: a) An updated abstract of 2 pages, or b) a full paper of maximum 5 pages (including figures). In both cases the paper templates available at www.eucap2013.org must be used. The template for the final 2-page abstract is the same as for the initial abstract. Note that the 2 page abstract will not appear in IEEE Xplore, whereas the full paper will, if it is found to be consistent with the required formats and content. The authors will also be asked during paper submission if they want to be considered for any awards or grants, as explained below.

At least one of the authors of each paper must register for attending the conference, and, it is not possible for any person to register more than two papers in his/her name as "presenting author".

Awards:

EuCAP 2013-Göteborg awards: Four awards will be given in the areas of Measurement, Propagation, Antenna theory and Antenna design.

ESoA-EuCAP 2013 –Göteborg student awards: These awards will be given to the best oral paper presented by a student based on a pre-selection of the full papers with the highest quality.

EuCAP2013 Travel Grants: These will be awarded to authors of high quality papers from developing countries, which are not able to pay the conference fee.

The detailed information and participation rules about the different awards and grants will be available at the EuCAP2013 website

Technical Program Committee:

Juha Ala-Laurinaho, Olav Breinbjerg, Andreas Fhager, Uwe-Carsten Fiebig, Nicolas Floury, Mats Gustafsson, Marianna Ivashina, Buon Kiong Lau, Cyril Mangenot, Christoph Mecklenbräuker, Andrea Neto, Claude Oestges, Pavel Pechac, Eva Rajo-Iglesias, Anders Rydberg, Ronan Sauleau, Jian Yang, Thomas Zwick.

CONFERENCE TOPICS:

ANTENNAS AND RELATED TOPICS

- A1 Electromagnetic theory and numerical techniques
- A2 Antenna interactions and coupling
- A3 Antenna systems and architectures
- A4 Scattering, diffraction and RCS
- A5 Imaging and inverse scattering
- A6 Small antennas and RF sensors
- A7 Wearable antennas
- A8 Dielectric resonator antennas
- A9 Printed elements, baluns and associated circuits
- A10 Wire antennas
- A11 Slotted, guided wave and leaky wave antennas
- A12 Array antennas
- A13 Reflectarrays and transmitarrays
- A14 Conformal antennas
- A15 Beamforming, data processing
- A16 Adaptive and reconfigurable antennas
- A17 Active and integrated antennas
- A18 MIMO, antenna diversity, smart and signal processing antennas
- A19 Reflector, feed systems and components
- A20 Lens antennas and radomes
- A21 Frequency and polarization selective surfaces
- A22 Multiband and wideband antennas
- A23 Ultra wide band antennas and time domain techniques
- A24 Advanced RF materials, meta-materials and EBG
- A25 Millimeter, sub-millimeter and TeraHertz antennas
- A26 High power antennas
- A27 Other antenna topics

PROPAGATION AND RELATED TOPICS

- P1 Fixed propagation modeling and measurement campaigns
- P2 Mobile channel modeling and measurement campaigns
- P3 Propagation / interaction with natural media (surface/vegetation)
- P4 Urban/indoors propagation
- P5 Trans-ionospheric propagation
- P6 Short-wave propagation
- P7 Millimeter and sub millimeter waves propagation
- P8 UWB propagation channel
- P9 Radio climatology
- P10 Polarization issues in propagation
- P11 Stochastic and deterministic channel modeling
- P12 Other propagation topics

ANTENNA AND RCS MEASUREMENT TECHNIQUES

- M1 General Antenna Measurements
- M2 Measurements of radar scattering and radar calibration techniques
- M3 Advances in near-field, far-field, compact and RCS test ranges
- M4 Measurement standards and range comparisons
- M5 Data acquisition, imaging algorithms and processing methods
- M6 Diagnostics methods for antenna acceptance testing
- M7 Multiple beams antenna testing
- M8 Adaptive antenna/smart antenna testing
- M9 MM-wave/quasi-optical antenna measurements
- M10 Ultra-wideband or frequency independent antenna measurements
- M11 RF material characterization, test techniques and facilities
- M12 EMI/EMC/PIM chamber design, measurements and instrumentation
- M13 End to end system testing
- M14 Over-The-Air (OTA) testing of antennas and wireless devices in multipath
- M15 Other measurement topics

APPLICATION TRACKS:

- Automotive
- Aircraft, ships and trains
- Navigation
- Cellular mobile communication (includes: base station, machine to machine, internet on devices, handheld devices)
- Wireless networks (includes: LAN, indoor communication)
- High data rates transfer and backbone networks
- RFID, on-body antennas and sensor networks
- Biomedical (includes: human body interaction, EM exposure and interactions)
- Satellite communications
- Satellite passive and active remote sensing
- RADAR
- Radio astronomy
- Signal and image processing
- Defense and security
- Commercial software
- Topic related to more than one application (Explanation: The EDAS web page will contain pop-up cell to select several applications)
- Other applications (Explanation: The EDAS web page will contain pop-up cell for input by the author)
- Topic unrelated to any application