MECAP 2016, Beirut

WELCOME

Following the success of the European Conference on Antennas and Propagation (EuCAP), MECAP board is pleased to announce the 3rd Middle East Conference on Antennas and Propagation, MECAP 2016, to be held in Beirut, Lebnanon.
MECAP 2016, supported by the top level Associations in Antennas & Propagation, provides, through its presentations and exhibition,the ideal place for the exchange of scientific and technical information, both at academic and industrial levels, and fosters collaboration and cooperation in the Antenna & Propagation domain both at Middle East and global levels.

SCOPE OF THE CONFERENCE

To provide a forum on the major challenges faced by the Antenna, Propagation and Measurement communities with the aim of fostering exchange of ideas between experts in their respective fields.Contributions from industries, organisations, universities and institutions are solicited. This conference will provide an overview of the current state of the art in the field, highlighting the latest developments and innovations required for future applications.

FORMAT OF THE CONFERENCE

The conference combines the following formats:
- Plenary sessions with invited keynote speakers
- Oral sessions (both convened and regular)
- Posters (presented in the same central area as the exhibition)
- Short Courses & Workshops
- Exhibition

APPLICATION TRACKS

MECAP 2016 will feature a session track focussing on applications. This will increase the interaction between academia and industry. During the submission process, authors will be invited to allocate their contributions to one or more applications, enabling the formation of application tracks in the final program. Contributions not targeting a particular application will be allocated to regular sessions all along the week. The following tracks are proposed:
- Fundamental research
- Satcom on-the-move terminal antennas
- Navigation, localisation, positioning and tracking
- Cellular mobile communications (includes: base station, mobile devices)
- Machine to machine communications, internet of things
- Wireless networks (includes: WLAN, indoor communication)
- High data-rate transfer and backbone networks
- RFID and sensor networks
- Biomedical (includes: human body interaction, on-body antennas,electromagnetic exposure and interactions)
- Satellite communications
- Satellite passive and active remote sensing
- RADAR
- Radio astronomy
- Signal and image processing
- Defense and security
- Short-range Giga-bit communications
- Commercial software

SHORT COURSES & WORKSHOPS

In the spirit of the previous MECAP editions, MECAP 2016 will also provide a series of short courses and workshops.

EXHIBITION & SPONSORSHIP

MECAP 2016 will provide ample opportunities for exhibitors and sponsors. The large exhibition area will be located in the central hall that gives access to all meeting rooms and will therefore be the heart
of the conference site.
Various sponsorship options are available. The packages range from the basic bronze package to the platinum package, each including an exhibition stand at the conference. In addition to sponsorship there are also advertising opportunities which can further enhance the profile of interested companies.

Keynote Speakers

Prof. Yehia Antar
Dr. Atif Shamim
Prof. Nemai Chandra Karmakar
Dr. Mohammed S. Sharawi
Prof. Dr. Ezzeldin A. Soliman
Dr. Mohamad Essaaidi
Prof. Sedki M Riad
A. Prof. Dr.-Ing. Mohamed El-Hadidy

Special Sessions

SS1: Inkjet Printed Flexible and Disposable RF Electronics
Prof. Atif Shamim
SS2: Printed MIMO Antenna Systems and Applications
Prof. Mohammad S. Sharawi
SS3: Chipless RFID Future and Challenges
A. Prof. Dr.-Ing. Mohamed El-Hadidy

IEEE

Importatnt Deadlines

Submission of Papers	~~21 June 2016~~
Hard Deadline	15 July 2016
Notification of Acceptance	31 July 2016

MECAP 2016 Chairs

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Usamah O. Farrukh

MEOMAP Chairs
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Esmat Abdallah

TPC Chairs
Yahya Khraisat
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Mohamad Rammal
Sobhi Abou Chahine
Hanna Farhat
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Supporting Associations

IEEE Lebanon AP/MTT/MAG Chapter
IEEE
CST
IEEE Lebanon Section
MEOMAP

Conference Topics

ANTENNAS AND RELATED TOPICS
A01 Electromagnetic theory and numerical techniques
A02 Antenna interactions and coupling
A03 Antenna systems and architectures
A04 Scattering, diffraction and RCS
A05 Imaging and inverse scattering
A06 Small antennas and RF sensors
A07 Wearable antennas
A08 Dielectric resonator antennas
A09 Printed elements, baluns and associated circuits
A10 Wire antennas
A11 Slotted-, guided- and leakywave 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 polarisation selective surfaces
A22 Multiband and wideband antennas
A23 UWB antennas and timedomain techniques
A24 Advanced RF materials, metamaterials and EBG
A25 Millimeter-wave, submillimeterwave and TeraHertz antennas
A26 High-power antennas
A27 Nano antennas

MEASUREMENT TOPICS
M01 General antenna measurements
M02 Measurement of radar scattering and radar calibration techniques
M03 Advances in near-field, far-field, compact and RCS test ranges
M04 Measurement standards and range comparisons
M05 Data acquisition, imaging algorithms and processing methods
M06 UWB or frequencyindependent antenna measurements
M07 RF materials characterisation, test techniques and facilities
M08 EMI/EMC/PIM chamber design, measurements and instrumentation
M09 End-to-end system testing
M10 Over-The-Air (OTA) testing of antennas and wireless devices in multipath

PROPAGATION TOPICS
P01 Tropospheric propagation
P02 Radio climatology
P03 Polarisation issues in propagation
P04 Satellite propagation modeling and measurement campaigns
P05 Aeronautical and maritime propagation
P06 Multi-link MIMO and cooperative channels
P07 Vehicle-to-vehicle and vehicleto-infrastructure channels
P08 Channel-sounding techniques and channel-estimation techniques
P09 Millimeter- and submillimeterwave propagation
P10 Joint antenna-channel issues in propagation
P11 Outdoor/urban propagation
P12 Indoor propagation
P13 Outdoor-to-indoor propagation
P14 UWB propagation
P15 Body-centric propagation
P16 Propagation/interaction with natural media (surface/vegetation)
P17 Propagation aspects in remote sensing
P18 Propagation in random media and diffuse scattering
P19 Propagation in complex media (underground, etc.)
P20 HF propagation
P21 Trans-ionospheric propagation
P22 Propagation effects for radioastronomy and deep space Communications

RF AND MICROWAVE CIRCUITS
R01 Monolithic and hybrid integrated active components and circuits
R02 Amplifiers, mixers, oscillators, switches, frequency dividers/multipliers
R03 Monolithic and hybrid passive components and circuits filters, couplers, and transitions
R04 Signal generation and modulation circuits
R05 Receiver and Transmitter components
R06 High power transmitters
R07 Active antennas and phased arrays
R08 Novel waveguides and new phenomena in waveguides
R09 RF packaging and package modeling
R10 Semiconductor devices and component modeling for RF applications
R11 RF MEMS and microsystems
R12 Microwave and millimeter-wave systems
R13 Electronic warfare and other military applications of RF/microwaves
R14 Emerging areas including nanotechnology and biomedical applications
R15 Wireless and cellular architectures, components, and circuits
R16 Highly integrated packaging
R17 Methods of maintaining signal integrity
R18 Optical/fiber techniques

Accepted papers will be submitted for publication in IEEE Xplore Digital Library

www.mecap-conf.org