

The 5th International Conference on electromagnetic Near-field (NF) Characterization and Imaging (ICONIC 2011), will be held in Rouen, FRANCE on November 30-December 2, 2011.

This conference has been held in the first place in Rouen, France in 2003; next in Barcelona, Spain in 2005; then in St. Louis, MO, USA in 2007 and in Taipei, Taiwan in 2009. Considering the rapid technology changes, the NF effects should be taken into account when designing cutting-edge systems and measurement techniques. To date, this impact concerns large areas of applications, in the entire frequency wave spectrum, for example in high-resolution imaging, nondestructive testing, optics/nanophotonics applications, electronic devices and component characterization, antennas for radar and communications, and ElectroMagnetic Compatibility (EMC). This unified international forum aims at enabling researchers and engineers from different communities, working on NF investigations in different physical domains such as Electrical/Electronics Engineering, Electromagnetism, Optics and Acoustics, to exchange new ideas and research opportunities.

Invitation to Submit Papers: Authors interested in these areas are invited to submit a technical paper abstract describing *original work* of their innovative and new results for this conference in a wide range of topics such as:

- **Modeling, Characterization and Simulation:**
 - Low frequency, RF/microwave and optical NF radiation theory
 - Acoustical and seismic wave theory
 - Numerical computation NF-methods
 - Transient and time-domain NF characterization
 - 2D Imaging processing method
 - 3D hologram analysis
- **Measurement Techniques:**
 - Optical techniques
 - Active and passive probe design and calibration
 - Dielectric and magnetic material characterizations
 - Test benches and experimental validation
 - EMI/EMC measurements, EM shielding
 - Signal/power- integrity analyses and improvements
 - Instrumentation for nano-imaging
- **Applications:**
 - Optic/nanophotonic applications
 - RF/microwave, millimeter-wave device emissions and immunities
 - Antenna design and radars
 - Biomedical, biology and ISM applications
 - Industrial and automotive/aerospace applications
 - EM dosimetry and nondestructive testing
 - Evaluation and embedded sensors for structural
 - Transportation and NF communications (NFC)
- **Other important topical subjects with an emphasis on near-field topics.**

Emerging Technical Areas: In addition to the traditional technical focus areas of ICONIC, the program committee enthusiastically invites submission of papers that report state-of-the-art progress in technical areas that are outside the scope of the listed areas or that may be new but are of interest to our attendees.

Length: Authors are requested to submit a preliminary abstract paper of 3 or 4 pages in length, including title, author's affiliation, abstract, figures and references. Papers must be uploaded to the paper submission website. Use of the word template available online: <http://iconic.esigelec.fr> is obligatory. Notifications of paper acceptance and the necessary information to electronically submit the final version of the paper are indicated below. Final papers shall be between 3 and 6 page length at most.

Student Paper Competition: Student participation is strongly encouraged to submit papers and facilitated by a reduced student registration fee. Student papers will be evaluated as all contributed papers, and will be eligible for the *Student Paper Competition*. Five student papers will be entered in a presentation competition by a student as author or co-author. The top three student paper winners will receive a plaque, a copy of the conference proceedings and a monetary award which will be presented to the winners at the conference banquet.

Evaluation: Papers will be evaluated on the basis of *Originality, Content, Clarity, and Relevance*. Accepted papers will be published in a proceedings book. The three-day conference consists of oral and poster sessions, a keynote and three invited and internationally recognized researchers who are scheduled to address the attendees on several state-of-the-art topics related to the scientific objectives of the conference.

For more information including on-line paper submission on ICONIC 2011, please join the conference web site: <http://iconic.esigelec.fr>, or contact us by e-mail at iconic@esigelec.fr.

Scientific Committee

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D.C. Chang – ICONIC 2009, Taiwan
R. Zoughi – ICONIC 2007, USA
A. Cardama – ICONIC 2005, Spain
J-Ch. Bolomey – ICONIC 2003, France

Conference Scientific Committee

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