



2004 URSI International Symposium on Electromagnetic Theory



Pisa, Italy

May 23-27, 2004

Final Call for Papers

General Information

In a long tradition, Commission B, "Fields and Waves", of the International Union of Radio Science (URSI) organizes a triennial series of International Symposia on Electromagnetic Theory. The next symposium in this series is the 2004 International Symposium on Electromagnetic Theory, which will be held in Pisa, Italy, May 23-27, 2004. It is hosted by the Italian Member Committee of URSI and is organized by a Local Organizing Committee at the University of Pisa, in collaboration with the Italian Electromagnetic Society (SIEm). The scope of the Symposium covers all areas of electromagnetic theory and its applications. The working language of the Symposium is English. There will be a limited number of Young Scientist Awards (YSA) available for application.

Paper Submission

Authors addressing advancement and describing innovation in all areas of electromagnetic theory and its applications and other topics of interest to URSI are invited to submit contribution for review and eventual presentation in the symposium. Suggested topics and general information are listed in the next page. All submission must be electronic.

Note: Two-times submission (Abstract and then final paper) is changed to one-time submission (Paper in 3-pages camera-ready format).

Conference Language

The official language of the Conference is English.

Further Information

The complete instructions for the electronic paper submission, the manuscript preparation, YSA application, registration and the updated information on the Symposium are available on the conference Web site:

www.ing.unipi.it/URSI-B2004

Symposium Location

The Symposium will be held at the University Conference Centre, in downtown Pisa (Italy). This important University city is located near the Tyrrhenian Sea (11 Km) in north-western Tuscany, along the banks of the Arno river, and approximately 80 Km west of Florence. Worldwide known for its extraordinary Leaning Tower, Pisa is a place of artistic treasures, heritage of its millenary history whose point of highest splendor dates back to the age of Maritime Republics (12th century).

Weather in Pisa

The weather in Pisa during May is generally warm and sunny; rain however cannot be excluded. The average daily temperature during late May is 27° C (80° F) maximum, 16° C (60° F) minimum.

Important and original papers will be selected and reviewed by the editorial board for inclusion in Radio Science. Details will be announced on the conference Web site

Contributions concerning all aspects of electromagnetic theory and its applications are welcome. Other organized sessions are also indicated on electronic paper submission page of the Web. Novel and innovative contributions are particularly appreciated.

Regular Topics

Basic Electromagnetic Theory

- R1 Electromagnetic theory
- R2 Mathematical modelling of EM problems
- R3 Solutions to canonical problems
- R4 Non-linear phenomena

Scattering and Diffraction

- R5 Scattering and diffraction
- R6 High-frequency methods
- R7 Inverse scattering and imaging

Random, Inhomogeneous, Nonlinear and Complex Media

- R8 Propagation and scattering in layered structures
- R9 Random media and rough surfaces
- R10 Complex media
- R11 Beam and pulse propagation and scattering in lossy and/or dispersive media

Computational Techniques

- R12 Numerical methods: general aspects
- R13 Numerical methods for integral and differential equations
- R14 Hybrid methods

Transient Fields

- R15 Time domain methods
- R16 Radiation, scattering and reception of transient fields and/or wide band signals

Guided Waves

- R17 Guided waves

EMC/EMI

- R18 Interaction of EM waves with biological tissues
- R19 Modelling Techniques for EMC/EMI

Antennas

- R20 Antennas: general aspects
- R21 Antenna arrays, planar and conformal
- R22 Smart antennas
- R23 UWB antennas

Systems

- R24 EM theory and applications for radio systems
- R25 Antennas and propagation for communication systems: Mobile, LAN etc.

Others

- R26 Others (please indicate your specific field)

Special Topics

- S1 Antennas, switches and circuits using RF MEMS
- S2 Artificial Magnetic, Soft and Hard Surfaces and other Complex Surfaces
- S3 Ground penetrating radars: EM modeling, antennas, imaging and inversion
- S4 Homogenization of electromagnetic material parameters
- S5 Hybrid techniques for large problems
- S6 Metamaterials
- S7 Radiation and Leakage effects in open planar structures
- S8 RF aspects of MIMO antenna systems
- S9 Space Solar Power Systems (Inter Commission WG in URSI)
- S10 The role of electromagnetism in micro- and nano-technologies
- S11 Time-reversal methods
- S12 UWB radio systems

Conference Contacts

General questions and technical program

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Questions regarding local arrangements

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Conference Secretariat

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Symposium Time Table

1st Nov. 2003	Deadline for receipt of YSA papers in the 3-pages camera-ready format and YSA applications (see the conference Web site for instructions)
15th Nov. 2003	Deadline for receipt of papers in the 3-pages camera-ready format (see Web site)
15th Jan. 2004	Notification of authors regarding acceptance of papers , notification of YSA applicants
15th Mar. 2004	Deadline for pre-registration (Presenting author must pre-register)
23rd-27th May 2004	Symposium