Union Radio-Sciéntifique Internationale
International Union of Radio Sciences

Announcement and CALL FOR PAPERS

1998 INTERNATIONAL SYMPOSIUM ON SIGNALS, SYSTEMS, AND ELECTRONICS

ISSSE '98

September 29-October 2, 1998 - Palazzo dei Congressi, PISA, Italy

"Co-Design of Radiocommunication Terminals: From Waves to Silicon through DSP"

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Queen's University, Canada

Publications
Filippo GIANNETTI
University of Pisa
Dept. Information Engineering
Via Diotisalvi 2
56126 PISA - Italy
Phone: +39 50 568548
Fax: +39 50 568662
e-mail: filippo@iet.unipi.it

Local Arrangements
Giorgio VITETTA
University of Pisa, Italy

Organizing Secretariat
INCOR - DGMP srl
Via Carducci 62/E
56010 Ghezzano (PI)
Italy
Phone: +39 50 879740/879768
Fax: +39 50 879812
e-mail: incor@sirius.pisa.it

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It is likely that by the year 2010 the number of *wireless* communication links for information transmission will exceed the number of *wired* ones. Each and every wireless communications application, be it high-speed point-to-point or switched cellular, terrestrial or satellite-based, UHF or mm-wave, has benefitted in terms of spectral and power efficiency by advances in VLSI, microwave and Digital Signal Processing (DSP) components and techniques. The ultimate goal of the radiocommunication engineer is currently to exploit the *sinergy* of those advances through clever *co-design* of different, previously separately-designed subsytems.
The Symposium will develop through parallel oral and poster sessions in the three main areas of *DSP-based Communication Equipments and Systems*, *VLSI Design and Components*, and *Microwave Theory and Techniques*. The main (but by no means exclusive) topics will be:

- HW/SW co-design
- Integrated modules and elements
- Data communication circuits
- Wireless transceivers
- Digital signal processors
- Advanced technologies for RF circuits
- Hybrid µwave techniques
- Broadband access systems
- DSP for smart antennas
- Modem Design
- Signal Detection & Synchronization
- Wireless Channel equalization
- 3rd Generation Wireless Radio Networks
- Source & Channel Coding
- Integrated Design Tools
- Automotive Applications
- Numerical & CAD Techniques
- Satellite applications

Five copies of tentative contributions should be received by the publications manager Filippo Giannetti at the address on the left no later than the submission deadline shown below. Papers should not exceed 3000 words (roughly 6 two-column camera-ready A4 pages including figures) and should be written in English, which is also the official language of ISSSE'98.

Deadlines:

Paper submission:	April 15, 1998
Notification of acceptance e-mailed:	June 1, 1998
Camera-ready due:	July 15, 1998
For further information:	filippo@iet.unipi.it
www Home Page:	http://www.iet.unipi.it/ISSSE98

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