

SIGMAP 2006

International Conference on Signal Processing and Multimedia Applications

SIGMAP is organized by INSTICC - Institute for Systems and Technologies of Information, Control and Communication and technically co-sponsored by IEEE.

SCOPE

The purpose of the *International Conference on Signal Processing and Multimedia Applications* (SIGMAP) is to bring together researchers, engineers and practitioners interested on information systems methods and applications in the context of Signal Processing, including theory and practice related to the areas of telecommunications, image, video, audio, biometrics, etc. and Multimedia Applications related to the representation, storage, authentication and communication of multimedia information.

The signal processing field, which is quite vast, when combined with multimedia information encompasses a large number of research topics and applications. Below is indicated a list of main topics but many other topics could be listed.

Ideas on how to analyze and apply signal processing methods to problems involving multimedia information and technology, either in the scope of R&D projects, engineering or business applications, are welcome. Papers describing new methods or technologies, advanced prototypes, systems, tools and techniques and general survey papers indicating future directions are also encouraged.

Papers describing original work are invited in any of the areas listed below. Accepted papers, presented at the conference by one of the authors, will be published in the Proceedings of SIGMAP, with an ISBN. Acceptance will be based on quality, relevance and originality. Both full research reports and work-in-progress reports are welcome. There will be both oral and poster sessions.

The best papers will be selected to appear either in an international journal or in a book to be published by Springer.

Workshops, special sessions, case-studies and tutorials dedicated to technical/scientific topics related to the main conference are also envisaged: researchers interested in organizing a workshop or special session, or companies interested in presenting their products/methodologies or researchers interested in holding a tutorial are invited to contact the conference secretariat. Additional information can be found at <http://www.sigmap.org>.

TOPIC AREAS / CONFERENCE TRACKS

Each of these topic areas is expanded below but the sub-topics list is not exhaustive. Papers may address one or more of the listed sub-topics, although authors should not feel limited by them. Unlisted but related sub-topics are also acceptable, provided they fit in one of the following main topic areas:

- Multimedia Communication
- Multimedia Signal Processing
- Multimedia Applications and Systems Design

Area 1: Multimedia Communication

- Digital Audio & Video Broadcasting
- Digital Television
- Traffic Modelling for Multimedia
- Multimedia and VoIP - Services & Technologies
- Audio and Video Streaming (IPv4 / IPv6)
- Video and Speech Coding and Recognition
- MPEG Standards and Universal Multimedia Adaptation
- Internet Audio Applications
- Internet QoS for Multimedia Applications
- Mobile Multimedia Information Transmission
- Remote Sensing
- IP video/web conferencing
- Multimedia e-commerce

Area 2 : Multimedia Signal Processing

- Modalities: audio, speech, visual, graphics, other
- Image and Video Compression
- Music Processing
- Machine Learning for Signal Processing
- Joint Audio/Visual and Multimodal Processing
- Joint Source/Channel Coding
- Multidimensional Signal Processing
- Sensor Array and Multichannel Signal Processing
- Signal Processing for Data Storage
- Bio-imaging and signal processing
- Biometrics and Pattern Recognition
- Adaptive Signal Processing
- Signal Processing Education
- Neural Networks and Genetic Algorithms

Area 3 : Multimedia Applications and Systems Design

- Distributed Multimedia Systems
- Image and Video Databases
- Content analysis and Recognition
- Multimedia Indexing and Retrieval
- Authentication and Watermarking
- Entertainment and games
- Distance learning over the Internet
- Human-Machine Interfaces and Interaction using multiple modalities
- Human Perception (including integration of art and technology)
- Multimedia Hardware and Software
- Multimedia Information Appliances and Consumer Devices
- Design and Implementation of Signal Processing Systems

WORKSHOPS

SIGMAP 2006 expects to host several workshops. If you would like to propose the organization of a workshop to be held in conjunction with SIGMAP 2006, please contact the secretariat as soon as possible.

KEYNOTE SPEAKERS

- Fernando Pereira, Instituto Superior Técnico - Instituto de Telecomunicações, Portugal

TUTORIALS

SIGMAP 2006 will include several tutorials, to be lectured the day before the conference opening. If you would like to propose a tutorial for SIGMAP 2006, please contact the secretariat as soon as possible. Proposals should specify the topic and scope of the tutorial, the background knowledge expected of the participants, and a short CV of the instructor(s).

SUBMISSION OF PAPERS

Authors should submit a complete paper in English of up to 8 A4 pages, using the submission procedure indicated below. The program committee will review all papers and the contact author of each paper will be notified of the result, by email. Each paper should clearly indicate the nature of its technical/scientific contribution, and the problems, domains or environments to which it is applicable. Authors must also indicate the conference track to which the paper is submitted. The paper must be carefully checked for correct grammar and spelling.

Paper submission procedure

1. A "blind" paper evaluation method will be used. To facilitate that, the authors are kindly requested to produce and provide the full paper, WITHOUT any reference to the authors. The manuscript must contain, in its first page, the paper title, an abstract and a list of keywords but NO NAMES OR CONTACT DETAILS WHATSOEVER are to be included in any part of this file.

2. The contact author will then use the SIGMAP web-based submission facility available at the conference web site, <http://www.sigmap.org/> to enter the contact information of all paper authors plus the file indicated in point 1, above. The facility will automatically send a submission acknowledgement, by email, to the author indicated as "contact author".

The camera-ready format will be enforced only for accepted papers, but authors are encouraged to use it also for paper submissions, in order to reduce extra work later. Two templates are provided at the conference web site: one for Latex and another for MS Word. Due to space limitations in the Proceedings, the camera-ready version will be limited to 8 (eight) pages for full papers, 6 (six) for short papers (progress reports) and 4 (four) for poster presentations. If absolutely needed, it will be allowed to increase the total number of pages, by 4 extra pages. However, for each excess page the author will have to pay an additional fee.

PUBLICATIONS

A SIGMAP 2006 papers will be indexed by DBLP.

All accepted papers will be published in the conference proceedings, under an ISBN reference, in paper and in CD-ROM support.

A book including a selection of the best conference papers will be edited and published by Springer.

The publication of extended versions of outstanding conference papers is also a possibility being discussed with several scientific journals.

IMPORTANT DEADLINES

Full Paper Submission: 3rd April 2006

Author Notification: 24th May 2006

Final Paper Submission and Registration: 8th June 2006

Conference Date: 7-10 August 2006

SECRETARIAT

SIGMAP Secretariat

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