

Internet Imaging III (EI19)

Part of IS&T/SPIE's 14th International Symposium on Electronic Imaging: Science and Technology
20–25 January 2002 • San Jose Convention Center • San Jose, California, USA

Conference Chairs: **Giordano B. Beretta**, Hewlett-Packard Co.; **Raimondo Schettini**, Istituto Tecnologie Informatiche Multimediali (Italy)

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Images have been the main propellant for the Internet's popularization. Expectations for performance and quality of images are driving new technologies as the space of web-connected business and commercial imaging solutions grows and as the cost of Web access and high quality reproduction hardcopy devices drops. Concomitantly, users are shifting towards wireless clients with Spartan network bandwidth and display sizes. New applications are appearing to take advantage of these opportunities, and exposing new system requirements.

Internet imaging is different from other imaging applications because an internet is a network of networks. This entails complications like unpredictable bandwidth, latency, caching, firewalls, security, platform heterogeneity, standardization, and others. Furthermore, images can be still images, animations, or video sequences.

This conference is intended as a forum for discussing these technologies, applications, and challenges facing them. The participants will present the most recent developments in the appropriate representation, communication, and rendering of images using the Internet. Focus of the conference is on novel means of image capture, coding, computation and representation specific to the Internet, efficient transport of images over networks, display and rendering of image received over networks, and the requirements of applications which derive value from the use of these technologies. Unmet needs of desired applications are also relevant. Algorithms, protocols, software, hardware, communications systems, and applications are appropriate topics.

Papers are solicited in the following areas, and special attention is given to new applications and requirements created by opportunities on the Internet:

- image processing for Internet, reuse of softcopy and hardcopy images -- data compression and representation, coding for multiresolution or resolution-independent images
- imaging issues in content-based indexing, search and retrieval, indexing video
- virtual and augmented reality, telemedicine, data visualization, remote surveillance

- Internet video, multimedia presentation on the Internet -- multimedia integration, presentation, management, authoring, animation, SMIL, SVG, VRML, Interactive TV, multimedia presentation formats, presentation agents, and e-commerce multimedia applications
- systems issues: color space architectures, distributed color management, computation for images on the Internet, automatic printing, displays for Internet appliances, e-commerce and e-services
- network image transport: protocols, XML applications, Web crawling, caching, and security
- network computing: distributed computing, performance analysis, benchmarks for contents based image retrieval (CBIR), MRML, fault tolerance & failure recovery, media synchronization, transaction managers, directory & agent services, wireless Internet
- social and legal issues and technical solutions for the Internet including privacy, copyright, content rating, watermarking, authentication, non-repudiation, and notification
- interactive image creation for the Internet -- artistic impression, Web design, special issues for video, semiotics, advanced man-machine interfacing, visual languages, ergonometry, user models for CBIR
- publishing on the Internet: graphic arts requirements, commerce systems, agents, image syndication, leasing, resolution and quality requirements, movie film digitization and color restoration, palettization, file formats, capture systems
- classifying images: perceptual organization, cataloging, categorization, thesauri, iconography, ontologies, metadata, XML solutions, video summarization
- cultural heritage applications: image permanence issues, scanning strategies, cataloging, presentation and publication strategies, DVD-ROM vs. Internet

A fast Internet connection will be available in the auditorium.

In deciding where to submit their papers, potential authors are advised to also consider such closely related EI 2002 conferences like Human Vision and Electronic Imaging, Storage and Retrieval for Media Databases, Security and Watermarking of Multimedia Contents, and Color Imaging: Device-Independent Color, Color Hardcopy, and Graphic Arts.

Abstract Due Date: 11 June 2001
Manuscript Due Date: 29 October 2001
Final Summary Due Date: 19 November 2001
Proceedings of this conference will be published and available at the meeting.
THE ABSTRACT AND MANUSCRIPT DUE DATES MUST BE STRICTLY OBSERVED.

For more information on this and other related conferences, please see www.spie.org/info/ei



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Submissions imply the intent of at least one author to register, attend the symposium, and present the paper (either orally or in poster format).

Your abstract must include all of the following:

1. **SUBMIT TO:** EI19, BERETTA, SCHETTINI
2. **SUBMIT EACH ABSTRACT TO ONE CONFERENCE ONLY** Internet Imaging III (EI19)
3. **ABSTRACT TITLE**
4. **AUTHOR LISTING** (principal author first)
For all authors: First (given) name (initials not acceptable), Last (family) name, Affiliation, Mailing address, Telephone, Fax, and Email address.
5. **PRESENTATION**
Indicate your preference for "Oral Presentation" or "Poster Presentation." Final placement is subject to chairs' discretion.
6. **ABSTRACT TEXT**
Approximately 500 words.
7. **KEYWORDS**
List a maximum of five keywords.
8. **BRIEF BIOGRAPHY** (principal/presenting author)
Approximately 50 words.

Conditions of Acceptance

- **Authors are expected to secure registration fees and travel and accommodation funding, independent of IS&T/SPIE, through their sponsoring organizations before submitting abstracts.**
- Only original material should be submitted.
- Commercial papers, descriptions of papers with no research/development content, and papers where supporting data or a technical description cannot be given for proprietary reasons will not be accepted for presentation in this symposium.
- Abstracts should contain enough detail to clearly convey the approach and the results of the research.
- Government and company clearance to present and publish should be final at the time of submittal.
- Applicants will be notified of acceptance by mail no later than 28 September 2001. Early notification of acceptance will be placed on the SPIE Web site the week of 24 September 2001 at www.spie.org/info/ei/

Paper Review

To ensure a high-quality conference, all abstracts and *Proceedings of SPIE* papers will be reviewed by the Conference Chairs for technical merit and content.

Instructions for Submitting Abstracts

All authors are STRONGLY ENCOURAGED to submit their abstracts by the due date using the "submit an abstract" link on the Web at:

www.spie.org/info/ei/

Using this method of submission ensures that your abstract will be immediately accessible to the conference chair for review. Using other methods of submission (listed below) will delay the processing of your abstract.

- or E-MAIL each abstract separately to: abstracts@spie.org in ASCII text (not encoded) format. IMPORTANT: to ensure receipt and proper processing of your abstract, the Subject line must include only the following:
SUBJECT: EI19, BERETTA, SCHETTINI
- or MAIL your abstract to:
IS&T/SPIE'S EI 2002
SPIE, P.O. Box 10, Bellingham, WA 98227-0010 USA
Shipping Address: 1000 20th St., Bellingham, WA 98225 USA
- or FAX one copy to SPIE at 360/647-1445 (send each abstract separately).

Publishing Policy

Manuscript due dates must be strictly observed. Whether the conference volume will be published before or after the meeting, late manuscripts run the risk of not being published in the *Proceedings of SPIE*. The objective of this policy is to better serve the conference participants and the technical community at large. Your cooperation is appreciated by all.

Final Summary

Accepted authors will receive instructions for submission of the 200-word Final Summary in their author kit. The Final Summaries will be published and available at the meeting.

Oral or Poster Presentation

Instructions for Oral and Poster presentations will be included in your author kit. All Oral and Poster presentations are included in the *Proceedings of SPIE* and require a manuscript.

Proceedings of SPIE

These conferences will result in full-manuscript editor-reviewed volumes published in the *Proceedings of SPIE* that can be ordered through the Advance Technical Program. Camera-ready manuscripts are required of all accepted applicants and must be submitted in English by 29 October 2001. Copyright to the manuscript is expected to be released for publication in the *Proceedings of SPIE*. **Note: If an author does not attend the meeting and make a presentation, the chair may choose not to publish the author's manuscript in the conference volume.** Papers published are indexed in leading scientific databases including INSPEC, Compendex Plus, Physics Abstracts, Chemical Abstracts, International Aerospace Abstracts, and Index to Scientific and Technical Proceedings.

Participant Registration Fee

Authors and coauthors are accorded a reduced symposium registration fee.