

Optical and Digital Image Processing (EPE115)

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In recent years, Moore's law has fostered the steady growth of the field of digital image processing, though computational complexity remains a significant problem for most of the digital image processing applications. At the same time, also research in the field of optical image processing has matured, potentially bypassing the limitations of digital approaches and giving rise to new applications. The aim of this conference is to create a joint forum for both research and application communities to share expertise, to solve present-day application bottlenecks and to propose new application areas. Consequently, this conference has a broad scope, ranging from basic and applied research to dissemination of existing knowledge. Covered applications include, but are not limited to image restoration, medical imaging, surveillance, holography

- image acquisition (new sensors, image reconstruction, phase image restoration, image fusion)
- image transformations (wavelet theory, space theory, geometrical transforms, restoration)
- image analysis (motion estimation, segmentation, object tracking, pattern recognition)
- visualization (3D visualization, holography, display systems)
- image information management (coding, cryptography, watermarking, storage and retrieval systems, resolution enhancement)
- applications (medical imaging, surveillance, security, remote sensing, industrial inspection, multimedia)
- interaction between architectures, systems or devices for optical and digital image processing.

Papers are solicited on (but not restricted to) the following areas:

Abstract Due Date: 24 September 2007

Manuscript Due Date: 10 March 2008

Submission of Abstracts for Photonics Europe

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- SPIE is authorized to circulate your abstract to conference committee members for review and selection purposes.
- Accepted abstracts may be published in printed and web programs promoting the conference. Please submit only 250-word abstracts that are suitable for publication.
- A full-length manuscript (8-12 pages) for any accepted oral or poster presentation will be submitted for publication in the SPIE Digital Library and conference Proceedings.

2. Prepare to submit:

- Have all contact information (full names, affiliations, addresses, phone numbers, and emails) for your coauthors ready.
- Only original material should be submitted.
- Abstracts should contain enough detail to clearly convey the approach and the results of the research.
- Commercial papers, papers with no new 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 conference.

3. Submit your abstract using the “submit an abstract” link at:

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Review, Notification, Programme Placement

- To ensure a high-quality conference, all abstracts and Proceedings manuscripts will be reviewed by the Conference Chair/Editor for technical merit and suitability of content. Conference Chair/Editors may require manuscript revision before approving publication, and reserve the right to reject for presentation or publication any paper that does not meet content or presentation expectations. SPIE's decision on whether to accept a presentation or publish a manuscript is final.
- Applicants will be notified of abstract acceptance and sent manuscript instructions by e-mail no later than 14 January 2008.
- Final placement in an oral or poster session is subject to the Chairs' discretion. Instructions for oral and poster presentations will be sent to you by e-mail.

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