Call for Papers

Journal of Real-Time Image Processing - JRTIP

Special Issue on Field-Programmable Technology for Real-Time Image Processing

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Field-programmable technologies, such as the Field-Programmable Gate Array (FPGA), provide high-performance platforms for real-time image and video processing applications. Several FPGA-based architectures have been proposed to solve particular problems, such as two-dimensional filtering, wavelet transforms, and motion-vector estimation. Many of these architectures have been published in various FPGA-related conferences.

Submissions are called for a special issue of the new periodical Journal of Real-Time Image Processing on “Field-Programmable Technology for Real-Time Image Processing”. The aim of this special issue is to bring together the most recent developments, and survey the state-of-the-art in the use of programmable logic solutions for real-time image and video processing.

Prospective authors who aim to contribute to this special issue are encouraged to submit original and unpublished papers dealing with theory or practice of real-time image processing on field-programmable technology. Papers and reviewers are solicited in any of the following or related areas:

- Novel uses of FPGA architectural features, such as embedded components, to accelerate image processing.
- Real-time computer vision and motion detection on programmable logic devices.
- Reconfigurable hardware-based motion vector estimation.
- Hardware-efficient image linear and non-linear filtering architectures.
- FPGA-based edge detection and spectral transforms.
- Hardware-efficient two-dimensional wavelet architectures.
- Specialized image processing hardware compilation and synthesis for reconfigurable devices.
- Reconfigurable architectures for image compression and decompression.

IMPORTANT DATES
Papers due: May 10, 2007
Review completed: June 28, 2007
Camera-ready paper due: August 5, 2007

SUBMISSION
The review process will operate on a "fast track" basis: prior to sending submissions, please send a 100-200 word abstract to the guest editor for approval.


Submissions can be made via [http://www.editorialmanager.com/jrtip/default.asp](http://www.editorialmanager.com/jrtip/default.asp), indicating that they should be scheduled for publishing in the Special Issue on Field-Programmable Technology.

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