Real-Time Image Processing and Deep Learning 2019 (SI121)

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This conference addresses the real-time aspects of image processing and real-time aspects of deep learning solutions in various imaging and vision applications. These aspects include algorithmic computational complexity, hardware implementation, and software optimization for the purpose of making an image processing or image recognition system to operate in real-time for an application of interest. The SPIE Conference on Real-Time Image Processing and Deep Learning is the continuation of the SPIE Conference on Real-Time Image and Video Processing that has been held for many years but is now expanded to include real-time deep learning for solving image recognition problems. This conference, similar to the previous real-time image processing conferences, is intended to serve as a field catalyst bringing together scientists and researchers from industry and academia working in real-time image processing and deep learning to present recent research results pertaining to real-time solutions to image processing and image recognition applications.

Papers of interest include, but not limited to, the following general topics addressing real-time aspects of image processing and deep learning:

- real-time image and video processing algorithms
- computational efficiency aspects of image or video processing systems
- real-time hardware implementation of image or video processing on embedded processors
- computational efficiency aspects of training image recognition deep learning networks
- real-time operation of image recognition deep learning networks
- real-time hardware implementation of image recognition deep learning networks on embedded processors.
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REVIEW, NOTIFICATION, AND PROGRAM PLACEMENT INFORMATION

• To ensure a high-quality conference, all submissions will be assessed by the Conference Chair/Editor for technical merit and suitability of content.
• Conference Chair/Editors reserve the right to reject for presentation any paper that does not meet content or presentation expectations.
• The contact author will receive notification of acceptance and presentation details by e-mail no later than 10 December 2018.
• Final placement in an oral or poster session is subject to the Chairs’ discretion.

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Abstracts Due: 3 October 2018
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