



2020 IEEE International Conference on Industrial Informatics July 12-15, Guangzhou, China

Special Session on "Digital Holography for Industrial Applications"

organized by

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Call for Papers

Theme:

The emergence of fast computing devices and high-resolution display devices has enabled Digital Holography technology to be applied in in numerous industrial, engineering, and bio-medical applications. There are numerous successful cases whereby Digital Holography is deployed in 3-D remote sensing and inspection, holographic microscopy, holographic information encryption, 3-D holographic display, and lensfree holographic image projection. This Special Session reports selected pieces of cuttingedge research works on these important areas, ranging from low level acquisition, to the high level analysis, processing and manipulation of digital holographic signals. Most of these works involve meticulous integration of optical systems, high speed computing technology, as well as vigorous signal processing and computational intelligence algorithms. We anticipate that this Special Session will provide a comprehensive review on the existing state-of-the-art in Digital Holography, as well as a broad insight into the application and future development of the discipline.

Topics of interest include, but are not limited to:

- Computer Generated Holography
- Digital Holographic Microscopy
- Optical Scanning Holography
- Phase Shifting Holography
- Compressive Holography
- Optical Metrology
- Holographic/Optical Remote Sensing and Inspection Techniques
- Holographic Cryptography
- Holographic Display and Printing
- Integral and 3D Imaging
- High Speed Hardware and Software in Digital Holography
- Deep Learning in Digital Holography
- Novel and Advance Applications of Digital Holography in Industry and Biomedical-Engineering

Submissions Procedure: All the instructions for paper submission are included in the conference website https://indin2020.medmeeting.org/en

Fast track to transactions: INDIN 2020 presents a unique chance of fast-tracking best papers to IEEE Transactions on Industrial Informatics (TII). Authors intended to use the fast track shall submit papers in the form following the transactions requirements: length up to 8 pages, double-column





IEEE format, <u>without</u> authors' names and affiliations. If the paper is accepted and recommended for the transactions' submission, the authors will be asked to:

- 1) Revise the paper according to the reviewers' comments and submit it to the TII with attached point by point summary of revisions. The paper will be then subject to double blind review process of TII.
- 2) Prepare a shortened, 4 page long version for the INDIN proceedings and submit it by the 'final manuscripts due' deadline of INDIN 2020. This version shall include authors names and affiliations as per the usual INDIN template.

Deadlines:

Deadline for submission of papers: Notification of acceptance of papers: Final manuscripts due: March 07, 2020 April 18, 2020 May 09, 2020