Announcing a Special Issue of the IEEE/OSA Journal of Display Technology on Holographic Displays

Submission Deadline: April 1, 2013

The IEEE / OSA Journal of Display Technology (JDT) invite manuscript submissions for a special issue in the area of holographic display technology. The purpose of this issue of JDT is to document recent advances in the physics, devices, materials, and applications of holographic or diffraction based displays or display related systems and technology. Broad technical areas include (but are not limited to):

► Materials, algorithms and devices for holographic display technology
  - High resolution spatial light modulators (SLMs)
  - Optically addresses devices for high resolution hologram storage
  - Next generation liquid crystal materials and devices
  - Photographic and polymeric holographic film technology
  - Light source technology for holographic displays
  - New hologram generation algorithms (including GPU acceleration)
  - Speckle reduction techniques and image improvement algorithms
  - Holographic optical elements for display enhancement
  - Digital holographic techniques and systems

► Two and three dimensional holographic displays
  - Holographic pico-projection and diffractive projection onto non-uniform surfaces
  - Adaptive optical correction for holographic displays (including confocal systems and tweezing)
  - Holographic techniques in photolithographic systems
  - Holographic waveguide based displays
  - Holographic head-up displays (HUDs), near to eye and helmet mounted holographic systems
  - Virtual holographic 3D displays
  - Volumetric holographic 3D displays
  - Algorithms for 3D hologram calculation, optimisation and compression
  - Human factors in the perception of holographic images

The Guest Editor for this issue is Dr Timothy Wilkinson, Cambridge University (Cambridge, UK). The deadline for submission of manuscripts is April 1, 2013 and publication is tentatively scheduled for the November 13, 2013 issue. Manuscripts should conform to requirements for regular papers (up to 8 double-column, single-spaced journal pages in length, keywords, biographies, etc.). All submissions will be reviewed in accordance with the normal procedures of the Journal. The IEEE Copyright Form should be submitted after acceptance. The form will appear online in the Author Center in Manuscript Central after an acceptance decision has been rendered.

For all papers published in JDT, there are voluntary page charges of $110.00 per page for each page up to eight pages. Invited papers can be twelve pages in length before overlength page charges of $220.00 per page are levied. The length of each paper is estimated when it is received. Authors of papers that appear to be overlength are notified and given the option to shorten the paper.

Authors may opt to have figures displayed in color on IEEE Xplore at no extra cost, even if they are printed in black and white in the hardcopy edition. Additional charges will apply if figures appear in color in the hardcopy edition of the Journal. Manuscripts should be submitted electronically through IEEE's Manuscript Central: http://mc.manuscriptcentral.com/leos-ieee. Be sure to select “2013 Holographic Displays Special Issue” as the Manuscript Type, rather than “Original Paper.” This will ensure that your paper is directed to the special issue editors. IEEE Tools for Authors are available online at: http://www.ieee.org/organizations/pubs/transactions/information.htm

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