

Call for Papers

IEEE/OSA Journal of Lightwave Technology Special Issue on

From 100G to Terabit Optical Networking:

Trends of Ultra-High Speed Communications

****Submission Deadline: March 15, 2012****

Larger capacity at very high bit rate per channel is driven by the proliferations of broadband applications of video, cloud computing and mobile data. We have witnessed significant advancement on newly efficient algorithm for coherent detection, highly integrated electrical and photonic components, and adaptive transponder and flexible optical nodes for next generation optical systems and networks in recently years. IEEE/OSA Journal of Lightwave Technology (JLT) invites manuscript submissions in following technical areas including, (but not limited) to:

- Advanced enabling technologies including modulation formats, coding, DSP for coherent detection
- Status of 100G deployments and lessons learned
- Network architecture of 100G and beyond
- High-speed opto-electronics devices, photonic and optoelectronic integration, new fiber for long-haul and submarine applications, and performance monitoring for optical transmission
- Standard for 100G and beyond
- multi-core or multi-mode spatial multiplexing
- Terabit per channel transmission technologies
- 100G and beyond broadband access networks

The deadline for submission of manuscripts is March 15, 2012. Short extensions may be granted upon request. Publication is scheduled for the JLT Volume 30 November/December 2012 issue. Authors may submit online at <http://mc.manuscriptcentral.com/jlt-ieee> and under Manuscript Type, select "100G-Terabit Optical Networks" for this special issue. Requests for more information will be handled by Douglas Hargis d.hargis@ieee.org or Lisa Manteria l.manteria@ieee.org

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