

Call for Papers

---Special Section on Photonic Network Technologies in Terabit Network Era ---

The IEICE Transactions on Communications announces that it will publish a special section entitled "Special Section on Photonic Network Technologies in Terabit Network Era" in **April 2011**.

Since large-capacity stream transmissions for 4-K digital cinemas and high-definition video applications, and large-size file transmissions for P2P applications are widely used. Photonic networking technologies are required to support high-speed, cost-effective, flexible, scalable, reliable, and robust communication network infrastructures. To offer a terabit communication environment, a new scenario to crossly interact with upper layers is also required. To achieve these requirements, research and development on photonic networking technologies including their standardizations are extensively performed. Because of such reasons, a special section is being planned (scheduled to appear in the April 2011 issue) to further promote research and development of future photonic network technologies, which covers areas such as network devices, transport networking, and applications.

1. Scope

This special section aims at timely dissemination of research in these areas. Possible topics include, but are not limited to:

- Photonic network architecture
 - New-generation transport network, optical network test bed, inter-operability test, integration of electrical and optical technologies, low-power network
- Photonic network control and management
 - Traffic engineering, path computation element, protocols
- Photonic network system
 - Optical packet/burst/path switching, optical multiplexing, optical label processing, optical access
- Photonic network application
 - Grid computing, high-speed transmission protocol
- Photonic network device
 - Optical switch, optical signal processing, optical memory

2. Submission Instructions

The standard number of pages is 8 for a PAPER and 2 for a LETTER. The maximum number of pages for the initial submission of a LETTER is 4. The page charges are considerably higher for extra pages. Manuscripts should be prepared according to the guideline in the "Information for Authors". The latest version is available at the web site, http://www.ieice.org/eng/shiori/mokuji_cs.html. **The term for revising the manuscript after acknowledgement of conditional acceptance for this special section is 30 days.**

This special section will accept only papers by electronic submission. Prospective authors are requested to follow carefully the submission process described below.

1. Submit a manuscript and electronic source files (TeX/Word files, figures, authors' photos and biography) for publishing using the IEICE Web site https://review.ieice.org/regist_e.aspx **by August 31, 2010**. Authors should choose the [Special-EB] Photonic Network Technologies in Terabit Network Era as a "Type of Issue (Section)/Category of Transactions" on the online screen. Do not choose [Regular-EB].
2. Send "Copyright Transfer and Page Charge Agreement" and "Confirmation Sheet of Manuscript Registration" by E-mail, FAX or postal mail to the following address (guest editor of the special section) by the above due date. There is a possibility that we shall withdraw the manuscript without receiving them by the due date, even if we have received the manuscript by electronic submission. For additional guidelines on manuscript preparation, please visit the web-page: http://www.ieice.org/eng/shiori/mokuji_cs.html

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3. Special Section Editorial Committee

Guest Editor-in-Chief: Satoru Okamoto (Keio Univ.)

Guest Editors: Eiji Oki (Univ. Electro-Communications), Hajime Nakamura (KDDI R&D)

Guest Associate Editors: Soichiro Araki (NEC), Tomohiro Otani (KDDI), Akira Okada (NTT), Kayo Ogawa (Japan Woman's Univ.), Toshikazu Sakano (NTT), Shoichiro Seno (Mitsubishi Electric), Takuo Tanemura (Univ. Tokyo), Hiroaki Harai (NICT), Tetsuya Mizumoto (Tokyo Institute of Technology)

* Please note that if accepted, all authors, including authors of invited paper, are requested to pay for the page charges covering partial cost of publications. Authors will receive 50 copies of reprints.

* At least one of the authors must be an IEICE member when the manuscript is submitted for review. Invited papers are an exception. We recommend that authors unaffiliated with IEICE apply for membership. For membership applications, please visit the web-page, <http://www.ieice.org/eng/member/OM-appli.html>