

MAY 7 (WED.) - 9 (FRI.), 2014 KOBE CONVENTION CENTER, KOBE, JAPAN

ENTERING A NEW ERA FROM LASERCOMM R&D TO COMMERCIALIZATION

SCHEDULE

Abstract Submission Opens **August 1, 2013**
Abstract Submission Deadline **October 31, 2013**
Acceptance Notification **December 1, 2013**
Final Manuscript Deadline **March 1, 2014**
Conference **May 7-9, 2014**

SCOPE

The scope of ICSOS covers technologies, procedures and algorithms that relate to free-space optical systems, with an emphasis on laser communications. The domain of the applications includes terrestrial, near-Earth and deep space (planetary). Areas of interest include components, subsystems, systems (flight and ground), devices, applications, laboratory and field demonstrations, algorithms, link models, signaling techniques and concept of operations. Submitted papers will be reviewed and selected to be presented at the Conference. Original papers are solicited on, but are not limited to, the following topics:

Systems and applications:

- present and future laser communication systems and scenarios
- laser communications technology for next generation applications
- space-based and terrestrial-based optical systems
- novel optical systems for laser beam
- small satellite systems for laser communications
- space lidar systems
- imaging systems

Devices, components and subsystems:

- novel optical devices for space-based applications
- optoelectronic subsystems and components
- laboratory demonstration hardware

Basic link technology:

- atmospheric propagation, transmission effects, and compensation techniques
- modulation formats for space-based systems
- trade-offs between optical and microwave (RF) systems
- new mm-wave/THz communication devices and systems
- quantum optical communication and cryptography

Legal aspects:

- policy and legal aspects
- interoperability
- standardization

ABSTRACT SUBMISSIONS

A one page PDF abstract written in English must be submitted to the conference website at <http://icsos2014.nict.go.jp/> by October 31, 2013. The abstract must include the paper title, author name(s), affiliation(s), contact email address(s), a summary, contents (describing what is new, with figures, tables and equations if appropriate), and references. Please use the template posted on the conference website when completing the abstract.

VENUE

Nestled between the mountains and the sea, Kobe is a modern urban center set amidst a rich natural environment, located in the heart of Japan. It has a long history as an international port city, having developed as a gateway for goods and people from overseas. The Kobe Convention Center was built as the central site of the convention facilities in Portopia, a manmade island and the world's first offshore cultural city, easily accessible by train, car, or by air.

Registration fees will be announced when the online registration starts.



ICSOS 2014 ORGANIZING COMMITTEE

General Chairperson: Toshio Kosuge

(University of Electro-Communications, Japan)

Vice Chairperson: Hiroyuki Yano (NICT, Japan)

Members: Hajime Fukuchi (Tokyo Metropolitan University, Japan), Takashi Iida (Tokyo Metropolitan University, Japan), Susumu Kitazume (JEPICO Corporation, Japan), Kiyoshi Kobayashi (ATR, Japan), Hiroo Kunimori (NICT, Japan), Yasushi Munemasa (NICT, Japan), Hiroyo Ogawa (ARIB, Japan), Kohei Ohata (SKY Perfect JSAT, Japan), Hirofumi Saito (JAXA, Japan), Yuzo Suga (Hiroshima Institute of Technology, Japan), Yoshihisa Takayama (NICT, Japan), Hideki Takenaka (NICT, Japan), Morio Toyoshima (NICT, Japan), Masanobu Yajima (JAXA, Japan)

ICSOS 2014 TECHNICAL PROGRAM COMMITTEE

Chairperson: Morio Toyoshima (NICT, Japan)

Co-vice Chairperson: Hamid Hemmati (JPL, USA)

Co-vice Chairperson: Zoran Sodnik (ESA, The Netherlands)

Members: Toshiyuki Ando (Melco, Japan), Tomohiro Araki (JAXA, Japan), Josep Maria Perdigues Armengol (ESA, The Netherlands), Dirk Giggenbach (DLR, Germany), Peter Kinman (California State University, Fresno, USA), Alexander Koujelev (CSA, Canada), Hiroo Kunimori (NICT, Japan), Volodymyr Kuz'kov (Main Astronomical Observatory of National Academy of Sciences, Ukraine), Brett Nener (University of Western Australia, Australia), Dominic O'Brien (University of Oxford, UK), Eiji Okamoto (Nagoya Institute of Technology, Japan), Alwyn Seeds (University College London, UK), Mazen Shihabi (NASA, USA), Koichi Shiratama (NEC TOSHIBA Space Systems, Ltd., Japan), Yoshihisa Takayama (NICT, Japan), Linda M Thomas (Naval Research Laboratory, USA), Tomoaki Toda (ISAS/JAXA, Japan), Katsutoshi Tsukamoto (Osaka Institute of Technology, Japan), Rupert Ursin (IQOQI, Austria)

Contact: Ms. Sudo, Ms. Nagai, ILCC Co., Ltd. tel. +81 3 5562 3677 / fax. +81 3 5562 3666 / icsos2014@ilcc.com

ICSOS2014 is organized by National Institute of Information and Communications Technology (NICT), and will be supported by Japan Aerospace Exploration Agency (JAXA).

