

FINAL CALL FOR PAPERS



IN
COOPERATION
WITH

SPIE

The Magnetics
Society of
Japan (MSJ)

The Institute of
Electronics,
Information and
Communication
Engineers (IEICE)

The Chemical
Society of Japan

Information
Processing Society
of Japan

The Institute of
Electrical Engineers
of Japan

The Institute of
Image Electronics
Engineers of Japan

The Institute of
Image Information
and Television
Engineers

The Japan Society
for Precision
Engineering

The Laser Society of
Japan

International Symposium on

Imaging, Sensing, and Optical Memory 2019

TOKI MESSE, Niigata, Japan

Oct. 20 - Oct. 23, 2019

SPONSORED BY

- The Optical Society of Japan
(OSJ)

COSPONSORED BY

-The Japan Society of Applied
Physics (JSAP)

-Optoelectronics Industry and
Technology Development
Association (OITDA)

Paper Deadline
June 1, 2019

<http://www.isom.jp/>

INTRODUCTION

The 29th ISOM (ISOM'19) will be held from October 20 to October 23, 2019 at TOKI MESSE, Niigata, Japan.

The origin of ISOM is SOM (Symposium on Optical Memory), which was held firstly in 1985 in Tokyo as a Japanese domestic symposium. The first ISOM (International Symposium on Optical Memory) was held in 1987 also in Tokyo. Until 1994, ISOM and SOM were held alternately every other year, and since 1995, ISOM has been held every year. The total number of papers of the past symposiums has reached 3,440, and the total number of participants has reached 10,410.

The purpose of the symposium was to provide a forum for information exchange on a broad range of topics covering science and technology in optical memory and its related fields. However, information explosion in the internet and cloud service has been enforcing optical memory to change from that for consumer storage to that for enterprise storage. Many colleagues of us have been seeking for new frontiers of optical memory technologies. Considering this situation, the scopes of ISOM are being continuously updated and have been reorganized in 2016. To further highlight them, the official name of ISOM was changed from “International Symposium on Optical Memory” to “International Symposium on Imaging, Sensing, and Optical Memory” in 2017. Paper submissions related to the new scopes as well as the conventional ones would be strongly encouraged.

In ISOM'19, along this direction, it will be very much expected to discuss the current status of optical memory, imaging, sensing, and other related technologies. In addition, we are planning to have a demonstration session at the symposium as in the last four years, in which authors will be able to show their vivid and attractive research results.

We are looking forward to your paper submission and seeing you in Niigata, Japan.

SCOPE OF THE SYMPOSIUM

ISOM'19 will discuss the current status of Optical Memory, Imaging, Sensing, and Other Related Technologies.

The scope of ISOM'19 covers the above research fields. ISOM will provide the attractive fields to exchange the latest advances and/or ideas in the above research fields and also provide scientific interaction and collaboration.

Topics to be covered in this symposium include, but are not restricted to:

1. Optical Memory

- Professional Archive System
- Holographic Memory
- High-density Recording
- Media and Material Science
- Drive Technologies and Signal Processing
- Components and Devices
- Testing Methods
- Others

2. Imaging

- Computational Imaging
- Wavefront Coding
- Image Processing
- Optical System Design
- Devices
- Others

3. Sensing

- Medical and Bio-systems
- Three-dimensional Sensing
- Digital Holography
- Spectroscopy
- Bio-lab on a Disc
- Others

4. Other Related Technologies

- Optical Interconnection and Switching
- Optical Information Processing
- Nanophotonics and Plasmonics
- Components
- Material
- Display
- Photolithography
- Nonvolatile Memory
- Emerging Technologies and New World
- Others

ONLINE SUBMISSION

A limited number of original papers are accepted for presentation. The paper has to be submitted as an Adobe PDF-file at the ISOM website (<http://www.isom.jp/>). ISOM web submission service does not accept PDF files including 2-byte characters (for example, Japanese, Chinese and Korean characters). The local fonts should be removed from the text body and figures before submission. The 2-page summary preparation, 50-word abstract instruction, and submission procedures can be obtained at the ISOM website. Prior to paper submission, a delegated author has to fill in submission information including the 50-word abstract on the paper submission form at the website, and then a 2-page PDF summary should be uploaded via the website.

Mode of Presentation

In addition to oral presentation, which typically consists of a 15-minute presentation and 5-minute discussion, there will be a poster session in the symposium. The abstract and summary of poster papers will be published in the same fashion as those of oral papers.

Moreover, all authors can apply for “Demo Presentation” (presentation with technical demonstration) in addition to ordinary oral or poster presentation. ISOM will provide the environment for Demo Presentation and support the transportation fee of demo equipment. Details will be announced after the paper acceptance notice.

Online Abstracts and Summaries Submission Deadline: June 1, 2019

Questions to the Technical Program Committee should be addressed to the ISOM secretariat (secretary@isom.jp). The presentation schedule will be determined after the Technical Program Committee has reviewed the papers. Authors will be notified by the beginning of July, 2019 whether their papers are accepted. The notification e-mail will be sent to the corresponding author of the web-submission.

All authors who receive notification of their paper’s acceptance by the ISOM Technical Program Committee are requested to complete the copyright transfer form and promptly return it to the ISOM secretariat by e-mail, fax or postal mail.

ISOM Awards

The Best Paper Award, the Poster Award, and the Program Chair Award will be conferred to the excellent presentations as the ISOM prizes. ISOM welcomes student presentations from universities. The Student Award is also prepared.

PUBLICATION OF SYMPOSIUM PAPERS

Online Technical Digest will be available at the symposium including invited papers, accepted contributed papers, and limited numbers of post deadline papers. The conference papers will be published in October 2020 as a special issue of the OPTICAL REVIEW, which is the English-language journal of the Optical Society of Japan (OSJ). The authors who will have, by themselves, presented papers at ISOM'19 will be allowed to submit their papers for publication in this special issue.

The instructions for preparation of manuscript for the special issue will be informed to the corresponding authors by e-mail after the conference. Submitted papers will be reviewed based on the OPTICAL REVIEW standard.

ADDITIONAL INFORMATION

1. A get-together will be held in the evening of Oct. 20.
2. The banquet will be held on Oct. 22.
3. Special Sessions related to “Sensing, Imaging, and Optical Memory” are planned for Oct. 21-23.

Detailed information will be announced on the ISOM website (<http://www.isom.jp/>).

To receive further information about ISOM'19, please access ISOM website or directly contact the secretariat.

REGISTRATION FEES

All participants (including speakers) are requested to register, and are encouraged to register in advance (by **October 7, 2019**) in order to receive the early registration discount.

I. Advance Registration

The Symposium registration information and forms can be obtained from ISOM'19 website (<http://www.isom.jp>). If you have any questions, please contact ISOM'19 secretariat office.

II. Onsite Registration

The registration desk will be located at the 4th floor of "TOKI MESSE" (Niigata Convention Center) from Sunday through Wednesday during the following hours.

Oct. 20: 15:00 - 17:20

Oct. 21: 08:30 - 13:00

Oct. 22: 08:30 - 13:00

Oct. 23: 08:30 - 12:00

Type	Before / On October 7, 2019	Onsite
Regular	JPY 55,000	JPY 65,000
Student & Retiree	JPY 15,000	JPY 20,000
Banquet	JPY 5,000	JPY 7,000

The registration fee for the symposium includes admission to all the technical sessions and an online Technical Digest. Students are asked for showing their ID cards.

III. Registration and Payment

Those who wish to attend ISOM'19 will be able to register on the web (<http://www.isom.jp/>) after about August, 2019. The deadline for advance registration is **October 7, 2019**. After that, the registration will be processed at the symposium site upon arrival.

Payment should be made in Japanese Yen by bank transfer (inside Japan only) or by credit cards (VISA and Master Card) payable to ISOM'19. No personal checks will be accepted.

IV. Registration Cancellation Policy

As a rule, no refunds of the registration fee will be made for any reasons whatever. Even in the event of registrant unable to attend the symposium, they will be able to download the online Technical Digest.

ISOM'19 COMMITTEES

Organizing Committee

Chair:

Shimura, T. (Univ. of Tokyo)

Exofficio:

Kawata, Y. (Shizuoka Univ.)

Mitsubishi, Y. (ADTC)

Toshima, T. (formerly NTT)

Tsunoda, Y. (Hitachi)

Members:

Furuya, A. (Tokushima Bunri Univ.)

Hoshizawa, T. (Hitachi)

Itoh, K. (Osaka Univ.)

Miyagawa, N. (Panasonic)

Odani, Y. (OITDA)

Takeshita, N. (Mitsubishi)

Taniguchi, S. (Pioneer)

Advisory Committee

Chen, D. (Chen & Associates Consulting)

Fushiki, K. (Fushiki Office)

Goto, K. (Tokai Univ.)

Ichioka, Y. (Osaka Univ.)

Itoh, U. (formerly AIST)

Katayama, R. (Fukuoka Inst. of Tech.)

Kondo, T. (Shobayashi Int'l PTO)

Kubota, S. (Oxide)

Maeda, T. (formerly Hitachi)

Mansuripur, M. (Univ. of Arizona)

Mori, M. (NatureInterface)

Murakami, Y. (Sharp)

Ojima, M. (formerly Hitachi)

Okino, Y. (Kansai Univ.)

Park, Y. -P. (Yonsei Univ.)

Shimano, T. (Hitachi)

Sugiura, S. (Univ. of Tokyo)

Tsuchiya, Y. (Nagoya Inst. of Tech.)

Steering Committee

Chair:

Furuya, A. (Tokushima Bunri Univ.)

Vice Co-Chair:

Shinoda, M. (Kanazawa Inst. of Tech.)

Members:

Barada, D. (Utsunomiya Univ.)
Hosaka, M. (Hitachi)
Huang, D. -R. (Nat'l Dong Hwa Univ.)
Itonaga, M. (JVC KENWOOD)
Kanatake, Y. (Mitsubishi)
Kim, Y. -J. (Yonsei Univ.)
Kobayashi, Y. (Panasonic)
Nakamura, Y. (Toyohashi Univ. of Tech.)
Nishiwaki, H. (Pioneer)
Nomura, T. (Wakayama Univ.)
Okano, H. (Toshiba)
Tsai, D. P. (Academia Sinica)
Ushioda, I. (OITDA)
Watanabe, E. (Univ. of Electro-Communications)

Technical Program Committee

Chair:

Nomura, T. (Wakayama Univ.)

Vice Co-Chairs:

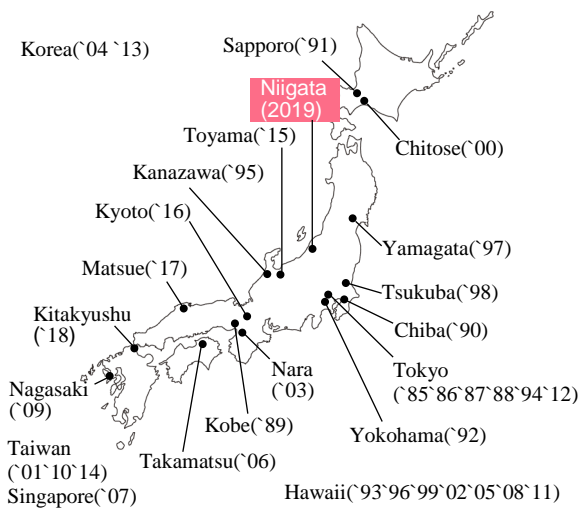
Nakamura, Y. (Hitachi)
Saito, K. (Kindai Univ. Tech. College)
Shima, T. (AIST)

Members:

Chong, T. C. (SUTD)
Hasegawa, S. (Hiroshima Inst. of Tech.)
Higashino, S. (Sony)
Horisaki, R. (Osaka Univ.)
Huang, D. -R. (Nat'l Dong Hwa Univ.)
Ichiura, S. (Gifu Univ.)
Iiyama, K. (Kanazawa Univ.)
Irie, M. (Osaka Sangyo Univ.)
Kao, T. S. (Nat'l Chiao Tung Univ.)
Kikukawa, T. (TDK)
Kim, J. (Samsung)
Kim, J. -H. (LG)
Kim, W. -C. (Hanbat Nat'l Univ.)
Kim, Y. -J. (Yonsei Univ.)
Kinoshita, N. (NHK)
Matoba, O. (Kobe Univ.)
Milster, T. (Univ. of Arizona)
Nakamura, A. (Panasonic)
Nishiwaki, H. (Pioneer)
Ono, M. (JVC KENWOOD)
Park, N. -C. (Yonsei Univ.)
Shin, D. -H. (Samsung)
Takabayashi, M. (Kyushu Inst. of Tech.)
Takeda, M. (Kyoto Inst. of Tech.)
Tan, X. (Fujian Normal Univ.)

Tominaga, J. (AIST)
Tsai, D. P. (Academia Sinica)
Wang, Y. (CAS)
Watabe, K. (Toshiba)
Wright, C. D. (Univ. of Exeter)
Yagi, S. (NTT-AT)

Location of Niigata with past venues



ACCESS TO CONFERENCE SITE

< Access to Niigata Airport >

至「新潟空港」

International direct flights (国際線)

From Incheon Airport: approx. 120 minutes.

From Harbin Airport: approx. 130 minutes.

From Shanghai Airport: approx. 165 minutes.

From Taipei Airport: approx. 210 minutes.

Domestic flights (国内線)

From Narita Airport: approx. 60 minutes.

自「成田空港」

From Kansai International Airport: approx. 60 minutes.

自「関西国際空港」

From Itami Airport: approx. 60 minutes.

自「伊丹空港」

From Chubu Airport: approx. 60 minutes.

自「中部国際空港」

From New Chitose Airport: approx. 75 minutes.

自「新千歳空港」

From Fukuoka Airport: approx. 105 minutes.

自「福岡空港」

< From Niigata Airport to Niigata Station >

自「新潟空港」



Limousine Bus:

Traveling time to JR Niigata Station is approx. 25 minutes.

< From Tokyo Station to Niigata Station >

自「JR 東京駅」



Joetsu Shinkansen line: 「上越新幹線」

(From Tokyo to Niigata)

Traveling time is approx. 2 hours.

< From JR Niigata Station to TOKI MESSE >

自「JR 新潟駅」

TAXI



approx. 5 minutes from the station.

Walk approx. 20 minutes from the station.

For more information, please refer to the following URL:

<http://www.tokimesse.com/english/index.html>

HOTEL ACCOMMODATIONS

There are a lot of online booking sites in Japan. As the example, some of them are listed below. You can reserve your rooms in English at these sites. ISOM does not prepare any special blocks of rooms for the participants.

- JAPANiCAN.com
<http://www.japanican.com/>
- Japan Traveler Online
<http://japantraveleronline.com/>
- Rakuten Travel
<http://travel.rakuten.com/>
- Hotels.com
https://www.hotels.com/?pos=HCOM_ASIA&locale=en_JP

Shown below are some candidate hotels near the ISOM'19 conference site (Niigata Convention Center (TOKI MESSE)).

- Hotel Nikko Niigata
<https://www.okura-nikko.com/japan/niigata/hotel-nikko-niigata/>
- ANA Crowne Plaza Niigata
<https://www.ihg.com/crowneplaza/hotels/us/en/niigata/kijcp/hoteldetail>
- Niigata Grand Hotel
<http://www.ni-grand.co.jp/eng/>
- Hotel Okura Niigata
<https://www.okura-nikko.com/japan/niigata/hotel-okura-niigata/>
- Niigata Toei Hotel
<https://www.toeihotel-niigata.com/en/>
- The Italia-ken
<http://www.italiaken.com/en/index.html>
- Court Hotel Niigata
<https://www.courthotels.co.jp/en/niigata/>
- Niigata Keihin Hotel
<http://www.keihinhotel.com/en/>
- Country Hotel Niigata
<http://www.niigata-c.jp/contents/english.php>



ISOM'19 Secretariat

c/o Adthree Publishing Co., Ltd.

27-37, Higashinakano 4-chome,

Nakano-ku, Tokyo 164-0003, Japan

Tel: +81-3-5925-2840 Fax: +81-3-5925-2913

e-mail: secretary@isom.jp