

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 2020

*Sunport Takamatsu, Takamatsu,
Kagawa, Japan*

Nov. 29 - Dec. 2, 2020

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
July 11, 2020

[https:// isom.jp/](https://isom.jp/)

INTRODUCTION

The 30th ISOM (ISOM'20) will be held from November 29 to December 2, 2020 at SUNPORT TAKAMATSU, Takamatsu, Kagawa, 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 3,516, and the total number of participants has reached 10,515.

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'20, 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 five 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 Takamatsu, Kagawa, Japan.

SCOPE OF THE SYMPOSIUM

ISOM'20 will discuss the current status of Optical Memory, Imaging, Sensing, and Other Related Technologies.

The scope of ISOM'20 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 (<https://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. If the summary does not meet the format, the paper will be rejected. Furthermore, the submitted paper cannot be replaced after the deadline.

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: July 11, 2020

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 middle of August 2020 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.

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 2021 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'20 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.

PRELIMINARY LIST OF INVITED SPEAKERS

A keynote speaker and a special invited speaker are under negotiation. Invited speakers are also under negotiation. The names of the speakers will be posted on the ISOM website as soon as possible.

REGISTRATION FEES

All participants (including speakers) are requested to register, and are encouraged to register in advance (by **November 16, 2020**) in order to receive the early registration discount.

I. Advance Registration

The symposium registration information and forms can be obtained from ISOM'20 website (<https://isom.jp/>). If you have any questions, please contact ISOM'20 secretariat office.

II. Onsite Registration

The registration desk will be located on the 6th floor of Hall Bldg on Sunday, and on the 6th floor of Tower Bldg on Monday to Wednesday at "SUNPORT TAKAMATSU" during the following hours.

Nov. 29: 15:00 - 17:20

Nov. 30: 08:30 - 13:00

Dec. 1: 08:30 - 13:00

Dec. 2: 08:30 - 12:00

Type	Before / On November 16, 2020	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'20 will be able to register on the web (<https://isom.jp/>) after about September 2020. The deadline for advance registration is **November 16, 2020**. 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'20. 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'20 COMMITTEES

Organizing Committee

Chair:

Shimura, T. (The 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.)

Kishigami, T. (Mitsubishi)

Miyagawa, N. (Panasonic)

Odani, Y. (OITDA)

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. (JAXA)

Kubota, S. (Oxide)

Maeda, T. (formerly Hitachi)

Mansuripur, M. (The Univ. of Arizona)

Mori, M. (NatureInterface)

Ojima, M. (formerly Hitachi)

Okino, Y. (Kansai Univ.)

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

Shimano, T. (Hitachi)

Sugiura, S. (The Univ. of Tokyo)

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

Steering Committee

Chair:

Furuya, A. (Tokushima Bunri Univ.)

Vice Co-Chairs:

Nakamura, Y. (ToyoHashi Univ. of Tech.)

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

Members:

Barada, D. (Utsunomiya Univ.)

Hosaka, M. (Hitachi Europe)

Imai, T. (Kyoto Univ. of Advanced Science)

Itonaga, M. (JVC KENWOOD)
Kanatake, Y. (Mitsubishi)
Kim, Y. -J. (Yonsei Univ.)
Kishimoto, T. (Panasonic)
Nishiwaki, H. (Pioneer)
Nomura, T. (Wakayama Univ.)
Okano, H. (Toshiba)
Tsai, D. P. (The Hong Kong Polytechnic Univ.)
Ushioda, I. (OITDA)
Watanabe, E. (The 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 Storage Media Solutions)

Horisaki, R. (Osaka 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. (The 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. (The Hong Kong Polytechnic Univ.)

Wang, Y. (Shanghai Inst. of Optics & Fine Mechanics)

Watabe, K. (Toshiba)

Wright, C. D. (The Univ. of Exeter)

Yagi, S. (NTT-AT)

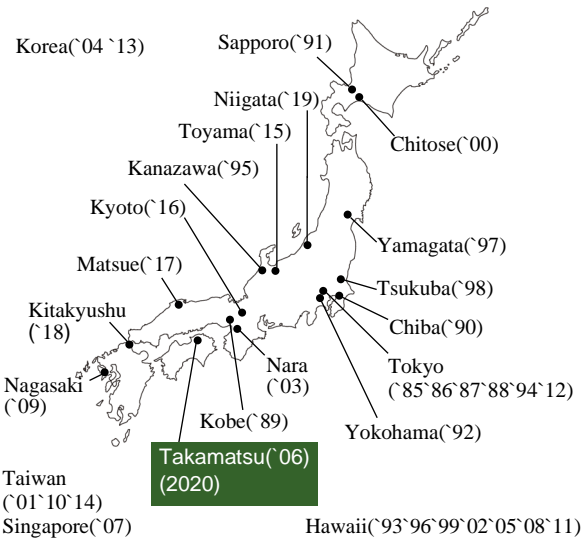
ADDITIONAL INFORMATION

1. A get-together will be held in the evening of Nov. 29.
2. The banquet will be held on Dec. 1.
3. Special Sessions related to “Imaging, Sensing, and Optical Memory” are planned for Nov. 30-Dec. 2.

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

To receive further information about ISOM'20, please access ISOM website or directly contact the secretariat.

Location of Takamatsu with past venues



ACCESS TO CONFERENCE SITE

< Access to Takamatsu Airport >

至「高松空港」

International direct flights (国際線)

From Incheon Airport: approx. 100 minutes.

From Hong Kong Airport: approx. 225 minutes.

From Shanghai Pudong Airport: approx. 135 minutes.

From Taipei Taoyuan Airport: approx. 150 minutes.

Domestic flights (国内線)

From Narita Airport: approx. 90 minutes.

自「成田空港」

From Haneda Airport: approx. 80 minutes.

自「羽田空港」

< From Takamatsu Airport to Takamatsu Station >

自「高松空港」



Limousine Bus:

Traveling time to JR Takamatsu Station is approx. 45 minutes.

< From Tokyo Station / Okayama Station to Takamatsu Station >

自「JR 東京駅」



JR Shinkansen: 「新幹線」

(From Tokyo to Okayama)

Traveling time is approx. 190 minutes.



JR Marine Liner: 「快速マリンライナー」

(From Okayama to Takamatsu)

Traveling time is approx. 55 minutes.

< From Takamatsu Station to SUNPORT TAKAMATSU >

自「JR 高松駅」

Walk approx. 3 minutes from the station.

For more information, please refer to the following URL:

<https://takamatsu.or.jp/participant/>

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'20 conference site (Takamatsu Convention and Visitors Bureau (Sunport Takamatsu)).

- JR Hotel Clement Takamatsu
<https://www.jrclement.co.jp/takamatsu/en/>
- JR Clement Inn Takamatsu
<https://www.jrclement.co.jp/inn/takamatsu/en/>
- Hyper Inn Takamatsu Ekimae
<https://hpdsp.jp/hyper-inn-takaeki/en/>
- Business Hotel Palace Takamatsu
<https://www.t-palace.co.jp/palace/>
- Toyoko Inn Takamasu Hyogomachi
<https://www.toyoko-inn.com/eng/search/detail/00130>
- Daiwa Roynet Hotel Takamatsu
<https://www.daiwaroynet.jp/english/takamatsu/>
- Takamatsu Tokyu REI Hotel
<https://www.tokyuhotelsjapan.com/global/takamatsu-r/>
- RIHGA Hotel Zest Takamatsu
<https://www.rihga.com/kagawa>
- Hotel Fukuya
<https://www.hotel-fukuya.com/english/>
- Royal Park Hotel Takamatsu
<https://ryl.anabuki-enter.jp/en/>



ISOM'20 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