

# FINAL CALL FOR PAPERS



IN  
COOPERATION  
WITH

SPIE

The Magnetics  
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Japan (MSJ)

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Electronics,  
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Engineers of Japan

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Image Information  
and Television  
Engineers

The Japan Society  
for Precision  
Engineering

The Laser Society of  
Japan

International Symposium on

## Imaging, Sensing, and Optical Memory 2018

*Kitakyushu International Conference  
Center, Kitakyushu, Japan*

Oct. 21 - Oct. 24, 2018

### 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, 2018**

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

## INTRODUCTION

The 28th ISOM (ISOM'18) will be held from October 21 to October 24, 2018 at Kitakyushu International Conference Center, Kitakyushu, 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 3,363, and the total number of participants has reached 10,300.

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'18, 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 three 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 Kitakyushu, Japan.

# SCOPE OF THE SYMPOSIUM

ISOM'18 will discuss the current status of Optical Memory, Imaging, Sensing, and Other Related Technologies.

The scope of ISOM was drastically changed in 2017. ISOM will provide the attractive fields to exchange the latest advances 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, 35-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 35-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 fifteen-minute presentation and five-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, 2018**

Questions to the Technical Program Committee should be addressed to the ISOM secretariat ([secretary@isom.jp](mailto: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, 2018 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 Special 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 September 2019 as a special issue of the Japanese Journal of Applied Physics (JJAP), which is the English-language journal of the Japan Society of Applied Physics (JSAP). The authors who will have, by themselves, presented papers at ISOM'18 will be allowed to submit their papers for publication in this special issue.

The instructions for preparation of manuscript and the agreement form for the special issue will appear on the ISOM website after the conference. Submitted papers will be reviewed based on the JJAP standard.

# REGISTRATION FEES

All participants (including speakers) are requested to register, and are encouraged to register in advance (by **October 8, 2018**) in order to receive the early registration discount.

## I. Advance Registration

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The Symposium registration information and forms can be obtained from ISOM'18 website (<http://www.isom.jp>). If you have any questions, please contact ISOM'18 secretariat office.

## II. Onsite Registration

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The registration desk will be located at the 1st floor of Kitakyushu International Conference Center from Sunday through Wednesday during the following hours.

Oct. 21: 15:00 - 17:20

Oct. 22: 08:30 - 13:00

Oct. 23: 08:30 - 13:00

Oct. 24: 08:30 - 12:00

Type	Before / On October 8, 2018	Onsite
Regular	JPY 50,000	JPY 60,000
Student & Retiree	JPY 10,000	JPY 15,000
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

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Those who wish to attend ISOM'18 will be able to register on the web (<http://www.isom.jp/>) after about August, 2018. The deadline for advance registration is **October 8, 2018**. 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'18. No personal checks will be accepted.

## IV. Registration Cancellation Policy

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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.

## ADDITIONAL INFORMATION

1. A get-together will be held in the evening of Oct. 21.
2. The banquet will be held on Oct. 23.
3. Special Sessions on "Bio-chip and Biosensor", "Computational Imaging", "Multimodal Imaging" and "Applications of Holographic Optical Elements" are planned for Oct. 22-24.

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

To receive further information about ISOM'18, please access ISOM website or directly contact the Secretariat.

## ISOM'18 COMMITTEES

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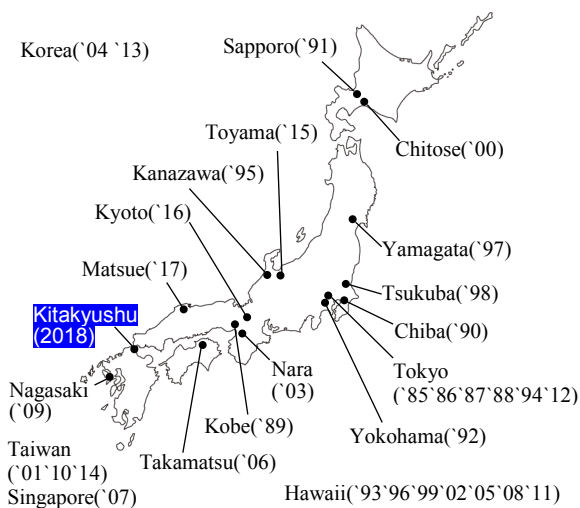


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 Takabayashi, M. (Kyushu Inst. of Tech.)  
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## Location of Kitakyushu with past venues



## ACCESS TO CONFERENCE SITE

### < Access to Kitakyushu Airport >

至「北九州空港」

#### **International direct flights** (国際線)

From Busan Airport: approx. 60 minutes

From Incheon Airport: approx. 80 minutes

From Dalian Airport: approx. 110 minutes

#### **Domestic flights** (国内線)

From Haneda Airport: approx. 110 minutes

自「羽田空港」

### < Access to Fukuoka Airport >

至「福岡空港」

#### **International direct flights** (国際線)

From Incheon Airport: approx. 80 minutes

From Taipei Airport: approx. 125 minutes

From Singapore Airport: approx. 360 minutes

### < From Kitakyushu Airport to Kokura Station >

自「北九州空港」



#### **Limousine Bus:**

Traveling time to JR Kokura Station is about 35 minutes.

### < From Fukuoka airport to Kokura Station >

自「福岡空港」



#### **Subway:** 「地下鉄」

(From Fukuoka airport to Hakata)

Traveling time is 5 minutes.



#### **Sanyo Shinkansen line:** 「山陽新幹線」

(From Hakata to Kokura)

Traveling time is 15 minutes.

### < From Shin-Osaka Station to Kokura Station >

自「JR 新大阪駅」



#### **Sanyo Shinkansen line:** 「山陽新幹線」

(From Shin-Osaka to Kokura)

Traveling time is 2 hours and 20 minutes.

### < From JR Kokura Station to Kitakyushu International Conference Center >

自「JR 小倉駅」

Walk 5 minutes from the station.

For more information, please refer to the following URL:

<http://convention-a.jp/kokusai-kaigi/>

## 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](https://www.hotels.com/?pos=HCOM_ASIA&locale=en_JP)

Shown below are some candidate hotels near the ISOM'18 conference site (Kitakyushu International Conference Center (KICC)).

- STATION HOTEL KOKURA  
<http://www.station-hotel.com/english/>
- RIHGA ROYAL HOTEL KOKURA  
<https://www.rihga.com/kitakyushu>
- ASANO HOTEL  
<http://www.kiteyone.net/asanohotel/asanohE/main.html>
- Comfort Hotel Kokura  
<https://www.choice-hotels.jp/hotel/kokura/>
- JR KYUSHU HOTEL KOKURA  
<http://www.jrk-hotels.co.jp/en/Kokura/>
- NISHITETSU INN KOKURA  
<http://inn-kokura.nishitetsu-hotels.com/en-gb/>
- HOTEL HARMONIE CINQ  
<http://harmonie-hotel.jp/fukuoka/>
- HOTEL CROWN PALAIS KOKURA  
<https://www.crownpalais.jp/kokura/en/>
- HOTEL NEW TAGAWA  
<http://www.hotel-newtagawa.co.jp/>
- PREMIER HOTEL MOJIKO  
<http://premierhotel-group.com/mojikohotel/english/>



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