



ISAP2020

Updated Call for Papers

2020 INTERNATIONAL SYMPOSIUM ON ANTENNAS AND PROPAGATION

January 25-28, 2021, Osaka, JAPAN

The 2020 International Symposium on Antennas and Propagation (ISAP2020) will be held at Knowledge Capital Congrès Convention Center in Osaka, Japan, from January 25 (Monday) through 28 (Thursday), 2021. This Symposium, the 25th ISAP, is sponsored and organized by the Communications Society of the Institute of Electronics, Information and Communication Engineers (IEICE), and is technically co-sponsored by the Antenna Measurement Techniques Association (AMTA), the Antennas and Propagation Society of the Institute of Electrical and Electronics Engineers (IEEE/AP-S), the Antennas Society of the Chinese Institute of Electronics (AS-CIE), the Electrical Engineering/Electronics, Computer, Communications, Information Technology Association of Thailand (ECTI), the European Association on Antennas and Propagation (EurAAP), the Institute of Antenna Engineers of Taiwan, the Korean Institute of Electromagnetic Engineering and Science (KIEES), and the Taiwan Microwave Association.

VENUE

Osaka is located on the main island of Honshu, roughly in the center of Japan. Once known as the Nation's Kitchen, Osaka still holds the title of Food Capital of Japan. Osaka provides a lot of shopping sites with an irresistible experience. The historical capital city of Kyoto, and Nara, an ancient city with numerous World Heritage sites, are all accessible in less than 40 minutes from Osaka.

Knowledge Capital Congrès Convention Center is directly linked via a connecting walkway to JR Osaka Station, the hub of the Kansai rail network.

Grand Front Osaka Knowledge Capital Congrès Convention Center



OBJECTIVE

ISAP2020 is intended to provide an international forum for the exchange of information on the progress of research and development in antennas, propagation, electromagnetic-wave theory, and related fields as shown in the SCOPE. It is also an important objective of this meeting to promote mutual interaction among participants.

SCOPE

This symposium will treat a wide range of subjects on antennas, propagation and electromagnetic-wave theory as suggested below. Papers concerned with other aspects of these subjects will also be considered. In addition, special topics treating emerging technologies heralding a new era in wireless communications and applications are invited for consideration.

A. Antennas

- A1. Small Antennas and RF Sensors
- A2. Antennas for Mobile and V2X Applications
- A3. Broadband and Multi-band Antennas
- A4. Active, Adaptive, On-Chip and Smart Antennas
- A5. Tunable and Reconfigurable Antennas
- A6. Planar/Printed Antennas and Arrays
- A7. Antenna Theory and Design
- A8. Antenna Measurements
- A9. Millimeter-wave, Terahertz and Optical Antennas
- A10. Metamaterials and Metasurfaces for Antennas

B. Propagation

- B1. Indoor and Mobile Propagation
- B2. Millimeter-wave, THz and Optical Propagation
- B3. Propagation for V2X and IoT
- B4. Channel Sounding and Channel Estimation
- B5. Radar, DOA, localization and Sensing
- B6. Remote Sensing
- B7. Terrestrial, Earth-Space and Ionospheric Propagation
- B8. Propagation Fundamentals
- B9. Propagation Measurement Techniques

C. Electromagnetic-wave Theory

- C1. Computational Electromagnetics
- C2. Time-Domain Techniques
- C3. Scattering, Diffraction and RCS
- C4. Inverse and Imaging Techniques
- C5. Optimization Methods in EM Problems
- C6. Passive and Active Components
- C7. Frequency Selective Surfaces and Filters
- C8. EBG, Metamaterials and Periodic Structures
- C9. Multiscale and Multiphysics Techniques

D. AP-related Topics

- D1. Antenna Systems for Mobile Communications
- D2. MIMO and Array Signal Processing
- D3. AP Related Topics for 5G and Beyond
- D4. Wireless Power Transfer Technologies
- D5. Wearable Device Networks and Medical Applications
- D6. OAM and Near Field Communications
- D7. RFID and Its Applications
- D8. EMC/EMI Technologies

IMPORTANT DATES

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| Deadline for paper submission: | September | 14, 2020 |
| Notification of accepted papers: | October | 27, 2020 |
| Deadline for early registration: | November | 30, 2020 |



IEICE
Communications Society



IEEE



PREPARATION OF PAPERS

Original papers are solicited that have not been presented previously and that describe new contributions in the area suggested in the SCOPE. Each author is requested to prepare a 2-page camera-ready paper in 2-column format written in English, including all text, references, figures and photographs. The authors are requested to refer to the ISAP2020 Web page (<http://www.isap2020.org/>) for the detailed paper preparation instructions and the IEICE Copyright Transfer Form.

SUBMISSION OF PAPERS

Authors are requested to send their papers in IEEE Xplore-compliant PDF format electronically. Presented papers of ISAP2020 are planned to be included in ISAP Archives and IEEE Xplore.

WORKSHOP

Several workshops will be scheduled to be held on January 25 (Monday), 2021.

AWARDS

Several outstanding papers will be awarded for ISAP2020 Paper Awards. ISAP2020 also hosts Student Paper Awards in order to foster activities of students toward highly qualified researchers.

STUDENT DESIGN CONTEST

Student Design Contest (SDC) will be held for the first time in the history of ISAPs during the ISAP2020. The aim of ISAP SDC is to promote student innovation and creative activities in antennas, propagation, and the related research fields. The following three contest categories are prepared; A. Antenna Design, B. Localization of RF Sources, and C. EM Analysis and Observation Competition. Excellent designs will be awarded at the buffet party of the ISAP2020 and will receive cash awards! Detailed information will be announced at the ISAP2020 SDC Web page: <http://www.isap2020.org/sdc.html>

SPECIAL SECTION ON IEICE TRANS.

The Special Section on ISAP2020 will be planned in the IEICE Transactions on Communications.

ISAP ARCHIVES

ISAP Archives currently opens as a trial service. You can search and read the conference papers from the ISAP1971 to 2016 at the ISAP Archives Web page: http://www.ieice.org/cs/isap/ISAP_Archives/index.html

EXHIBITION

Spaces for demonstration of software, books and products are also available with charge.

WIE (WOMEN IN ENGINEERING)

It is our pleasure to inform that ISAP2020 will launch WIE. WIE is providing opportunities to make global networks and collaboration for ALL ISAP2020 PARTICIPANTS through special sessions. The detailed information of ISAP2020 WIE will announce in the Web site. Our understanding and cooperation will develop AP technologies and community!

STEERING COMMITTEE

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|------------------------|--|
| Chairperson | H. Arai (Yokohama National Univ.) |
| Vice Co-Chairs | H. Iwai (Doshisha Univ.) J. Hirokawa (Tokyo Institute of Tech.) M. Takahashi (Chiba Univ.) |
| Secretaries | K. Nishimori (Niigata Univ.) N. Michishita (National Defense Academy) |
| Technical Program | H. Yamada (Niigata Univ.) |
| Student Contest | T. Takahashi (Mitsubishi Electric) |
| Registration | T. Sasamori (Hokkai-Gakuen Univ.) |
| Local Arrangement | M. Fujimoto (Univ. of Fukui) |
| Social Program | R. Yamaguchi (Softbank) |
| Exhibition | S. Hori (Kojima Industries) |
| International Advisory | Q. Chen (Tohoku Univ.) K. Cho (Chiba Institute of Tech.) |
| Finance | H. Tsuji (NICT) N. Ishii (Niigata Univ.) |
| Women in Engineering | M. Matsunaga (Tokyo Univ. of Tech.) |



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Sponsored and organized by:

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

Co-sponsored by:

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Further information can be found on the Website ▶ ISAP2020 Web Page : <http://www.isap2020.org>