

Joint Workshop TJMW&AWPT 2023

2023 Thailand-Japan MicroWave Workshop
2023 Asian Wireless Power Transfer Workshop



**King Mongkut's University
of Technology Thonburi
(KMUTT)**

**Bangkok, Thailand
Dec. 13-15, 2023**

<http://www.ieice.org/~mw/TJMW2023/>

IMPORTANT DATES

Paper submission website open: Aug. 11, 2023

**Paper submission deadline: Sept. 11, 2023 (Published)
Oct. 9, 2023 (Non-published)**

Acceptance notification: Oct. 13, 2023

Registration website open: Oct. 17, 2023

TJMW&AWPT 2023: Dec. 13-15, 2023



The Joint Workshop TJMW&AWPT 2023 is sponsored by IEICE Technical Committee on Microwaves and IEICE Technical Committee on Wireless Power Transfer. It is also jointly hosted by King Mongkut's University of Technology Thonburi.



Call for Papers

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TUTORIALS & TECHNICAL SESSIONS

TJMW&AWPT 2023 offers intensive tutorials and technical sessions on state-of-the-art RF, microwave, millimeter-wave, terahertz-wave theory and techniques and wireless power transfer technology with foresighted keynote and invited talks from Thailand, Japan and ASEAN countries. Technical sessions will take place on December 14-15. Tutorials will take place on December 13.

STUDENT DESIGN COMPETITION

All the students are welcomed to participate in the Student Design Competition, which will take place on December. Detail guideline will be announced in October on the website.

PAPER SUBMISSION

Authors should choose either TJMW or AWPT technical areas. Authors have two options for paper publication: Published paper (2-6 pages) or Non-published paper (1 page (or more) abstract). Published papers will go through review process by Technical Program Committee. All papers have to be submitted in electronic PDF form. Authors are strongly encouraged to use a template file available at the website when preparing their paper.

Technical areas of TJMW

A. Active Devices and Circuits

Low-noise devices and circuits, high-power devices and circuits, control circuits (mixers, oscillators, switches, etc.), MMICs and HMICs (receivers, transmitters, etc.), silicon RF devices

B. Passive Components

Filters and resonators, ferrite and surface wave components, packaging techniques, passive devices and circuits, waveguides, transmission lines

C. Systems

Communication systems, microwave applications (ITS, SPS, etc.), microwave medical & biological applications/EMC/EMI, phased array antenna systems

D. Fundamental theory and techniques

Scattering and propagation, electromagnetic field theory and CAD, antenna theory and designs, microwave photonics, microwave superconductivity, measurement techniques

E. Emerging Technologies

RF MEMS, active antennas, photonic bandgap and artificial metamaterials, software defined radio, wireless LAN/Bluetooth

Technical areas of AWPT

F. Wireless power transfer and energy harvesting

Near-field (inductive, resonant) power transfer, microwave transmission and beaming

G. Wireless power transmitters and receivers

High-frequency rectifying circuits and devices, rectennas and rectenna arrays

H. Integrated circuits and systems

Integrated AC-DC rectifiers and DC-DC converters, RF energy harvesting, self-powered sensors, RFID and electronic tags, integrated circuits for biomedical devices

I. Applications of wireless power transfer

Mobile and personal devices, home/Industrial-appliances, standardization, regulations and biological effects

J. Space Solar Power Station (SSPS)

WPT key technologies for SSPS, space energy collection and conversion

K. Other devices, systems, or applications related to wireless power transfer

Power conditioning, power control methods, efficiency improvement techniques, 5G/Beyond-5G/6G systems, internet of things (IoT)

YOUNG ENGINEERS PROGRAM

Young authors (typically 33 or less) are solicited to register their paper as a Young Engineers' Session (YES) paper upon your paper submission. The YES paper is invited to be presented both at a short presentation session and an interactive forum to obtain intensive technical feedbacks from high quality specialists in the field. Award winners will be selected from each of the TJMW or AWPT technical areas.