Call for Papers



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2024 International Workshop on Antenna Technology Small Antennas, Novel Metamaterials and Their Applications April 15–18, 2024, Tohoku University, Sendai, Japan https://attend.ieee.org/iwat-2024/

The International Workshop on Antenna Technology (iWAT) is an annual forum for the exchange of information on the progress of research and development in innovative antenna technology. It especially focuses on small antennas and applications of advanced and artificial materials to the antenna design. At iWAT, all the oral presentations are delivered by invited prominent researchers and professors. iWAT has a particular focus on posters by which authors have the opportunity to interact with leading researchers in their fields. iWAT is a series of annual international antenna



workshops which has been held in various contries all over the Photograph of Yagi-Uda antenna used as a world. Student Paper Awards and Student Encouragement Awards UHF receiver for a communication are available at iWAT2024. These awards will be presented at the experiment from Sendai to Otakamori in 1929 banquet. iWAT 2024 commemorates 100 years anniversary of Yagi- (Citation from web page of RIEC, Tohoku Uda antenna developed by Prof. Hidetsugu Yagi and Shintaro Uda Univ., https://www.riec.tohoku.ac.jp/ja/aboutat Tohoku University, Sendai, Japan. riec/antenna/).

Topics include but are not limited to the following:

*Small Antennas*Adaptive (smart) arrays

- - Antenna design and analysis based on characteristic or eigen modes
 - Antenna measurements
 - Antennas on/in IC packages
- Body-centric antennas
- Broadband antennas
- Conformal antennas
- Magnetic nanoparticles, graphene or carbonnanotubes in Antennas
- Measurements for SAR of handheld devices

Novel Metamaterials

- Analysis and design of EM materials
- Artificial magnetic conductors (AMC)
- Electromagnetic anisotropy
- Intelligent materials

Electromagnetic bandgap (EBG) structures

Applications

- Automotive systems
- Antennas for cube satellites
- Biomedical and healthcare applications
- Bluetooth/WLAN (PDAs, laptops)
- Energy harvesting Hyperthermia and RF Ablation
- GPS systems
- Medical diagnostic and therapeutic applications Millimeter-wave/terahertz communications and imaging
- MIMO systems

Important Dates

Deadline of paper submission: December 8, 2023 Notification of acceptance: January 19, 2024

information on creating acceptable electronic files.

Sendai Tourism, **Convention and**

Paper Submission Guidelines

Authors MUST submit camera-ready papers that are 2 to 4 pages including figures by December 8, 2023 via the workshop website. All papers must be formatted in two-column IEEE format including figures and electronic submissions must meet all IEEEXplore specifications. See the workshop website for templates and more





IEICE Communications Society

- MEMS/nanotechnology for antennas
- Terahertz nano and optical antennas
- Modeling and simulations
- Non-Foster/active elements
- On-chip antennas
- Reconfigurable antennas
- Reflectarrays
- Ultra-wideband (UWB) antennas
- Wearable, implanted, and encapsulated antennas
- 3D-printed antennas and structures

Frequency-selective surfaces (FSS)

- Single and double negative metamaterials
- Electromagnetic skins: epidermal, flexible, and stretchable antennas, sensing substrates
- Reconfigurable intelligent surfaces
- RFID antennas and wireless sensing systems
- Software-defined/cognitive radio
- Satellite communications
- UWB communications
- WBAN systems
- Wireless communication systems (handheld
- devices, base stations)
- Wireless power transmission and harvesting for implanted systems
- Smart radio environment for 6G communication systems