



Call for Papers

2027 International Workshop on Antenna Technology: Small Antennas and AI-enabled Antenna Design

iwat2027.physics.auth.gr



May 11th - May 13th, 2027
Aristotle University's Research Dissemination Center
(KEDEA), Thessaloniki, Greece.



IEEE



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The International Workshop on Antenna Technology (iWAT) is an annual forum for the exchange of information on the research and development in innovative antenna technologies. 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. iWAT2027 is a continuation of a series of annual international antenna workshops held in Singapore (2005), White Plains, USA (2006), Cambridge, UK (2007), Chiba, Japan (2008), Santa Monica, USA (2009), Lisbon, Portugal (2010), Hong Kong, PRC (2011), Tucson, USA (2012), Karlsruhe, Germany (2013), Sydney, Australia (2014), Seoul, Republic of Korea (2015), and Cocoa Beach, Florida, USA (2016), Athens, Greece (2017), Nanjing, China (2018), Miami, USA (2019), Bucharest, Romania (2020), Dublin, Ireland (2022), Aalborg, Denmark (2023), Sendai, Japan (2024), Florida, USA (2025) and Liverpool, UK(2026).

The workshop is technically sponsored by *IEEE AP-S* and *IEEE Greece Section* and financially sponsored by Aristotle University of Thessaloniki (AUTH) and University of Patras (UP).

Topics include but are not limited to the following:

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 Carbon-nanotubes in Antennas
- Measurements for SAR of handheld devices
- MEMS/nano technology 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

Innovative Structures

- Frequency selective surfaces (FSS)
- Single and double negative metamaterials
- Electromagnetic Skins: Epidermal, Flexible and Stretchable Antennas, Sensing Substrates

Important Dates

Deadline of paper submission: **November 30, 2026**
Notification of acceptance: **January 15, 2027**

Paper Submission Guidelines

Authors **MUST** submit camera-ready papers that are **2 to 4 pages** including figures by **November 30, 2026** via the workshop website. All papers must be formatted in two-column IEEE format including figures and electronic submissions must meet all IEEEExplore specifications. See the workshop website for templates and more information on creating acceptable electronic files.

Antennas meet Artificial Intelligence (AI)

- AI for antenna designs and optimisation
- Challenges in using AI for antenna designs
- Characteristic mode analysis and development
- Frontiers of Generative AI
- Surrogate modeling

Applications

- Automotive systems
- Biomedical and Healthcare applications
- Bluetooth/WLAN (PDAs, laptops)
- Energy harvesting
- GPS systems
- Medical Diagnostic and Therapeutic Applications.
- Millimeter-wave/terahertz communications and imaging
- Massive MIMO systems
- 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
- 5G and Beyond communication systems