

# MIAMI 2019

## International Workshop on Antenna Technology

**MARCH 3-6, 2019**

Florida International University — Graham Center  
11200 SW 8<sup>th</sup> Street | Miami, FL 33199



### 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 Singapore (2005), White Plains, USA (2006), Cambridge, UK (2007), Chiba, Japan (2008), Santa Monica, USA (2009), Lisbon, Portugal (2010), Hong Kong, China (2011), Tucson, USA (2012), Karlsruhe, Germany (2013), Sydney, Australia (2014), South Korea (2015), Orlando, USA (2016), Athens, Greece (2017), Nanjing, China (2018).

### Topics include, but will not be limited to:

#### SMALL ANTENNAS

- Adaptive (smart) arrays
- Antennas for 5G communications
- 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
- Millimeter-wave/Terahertz antennas
- Modeling and simulations
- Non-Foster/active elements
- On-chip antennas
- Reconfigurable antennas
- Reflectarrays
- Ultra-wideband (UWB) antennas
- Wearable antennas
- 3D printed antennas and structures

#### INNOVATIVE STRUCTURES

- Analysis and design of EM materials
- Artificial magnetic conductors (AMC)
- Electromagnetic anisotropy
- Electromagnetic bandgap (EBG) structures
- Frequency selective surfaces (FSS)
- Fractal Structures
- Single and double negative metamaterials
- Electromagnetic Skins: Epidermal, Flexible and Stretchable Antennas, Sensing Substrates
- Automotive systems
- 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

#### APPLICATIONS

- 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 communication systems
- Simultaneous transmit and receive systems

## CALL for PAPERS

### IMPORTANT DATES

**Deadline of paper submission:**  
~~October 19, 2018~~

**November 9, 2018**

**Notification of acceptance:**  
**December 21, 2018**

#### Paper submission guidelines:

Authors **MUST** submit camera-ready papers that are 2 to 4 pages including figures by October 19, 2018 via the workshop website [iwat2019.org](http://iwat2019.org). All papers must be formatted in two-column **IEEE** format including figures and electronic submissions must meet all **IEEE Xplore** specifications. See the workshop website for templates and more information on creating acceptable electronic files.

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