

## Contacts

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For More Information:

[www.ietradar.org](http://www.ietradar.org)

## Important Dates:

Paper Submission Deadline: 30 April 2018

Paper Acceptance Notification: 31 May 2018

Camera-ready Paper Submission: 30 June 2018

Conference Date: 17-19 October 2018



# IET International Radar Conference 2018

17-19 October 2018, Nanjing, China

## CALL FOR PAPERS

**Nanjing** is the capital of Jiangsu Province in East China, running through the city are lower reaches of the Yangtze River whose estuary is not far away. Nanjing enjoys a civilization of over 6000 years and the city itself was founded 2500 years ago.



Enclosed by mountains and rivers, and located in a strategic place, it boasts picturesque scenery that blends natural landscape with towering modern buildings, integrating traditional styles with modern civilization. Thus it was known as a unique historic and cultural city to the world.

As one of the Four Ancient Capitals, Nanjing is a vital cradle of Chinese civilization and over a long stretch of time, it has been the political and cultural pivot of South China, thus dubbed as the Capital of Ten Ancient Dynasties, rich in both cultural heritage and historical relics.



Among the landmarks of Nanjing there are the City Wall, the Ming Xiaoling Mausoleum, Dr. Sun Yat-sen Mausoleum, Presidential Palace and Confucius Temple. Over the thousands of years of its development, Nanjing has become a paradise for young entrepreneurs coming from different corners of the world with their aspirations.

## Organized by



The Institution of Engineering and Technology



Radar Society of Chinese Institute of Electronics



Beijing Institute of Technology

# 2018

## IET International Radar Conference

### About the event :

IET International Radar Conference 2018 will be held on 17-19 October 2018 in Nanjing city, China. This is the fourth IET International Radar Conference series in China after the first three successful conferences held in April 2009, Guilin, April 2013, Xi'an, and October 2015, Hangzhou, respectively. The conference aims to introduce the latest technological development and academic research hot issues of the radar technology, especially the latest researches and applications of civilian radar technology. It will provide a platform for radar experts and technicians to exchange ideas and achievements. Templates and submission instructions are available at website: [www.ietradar.org](http://www.ietradar.org). All accepted papers will be published in the conference proceedings and be submitted to IET Inspec and IEEE Xplore. After the conference, the papers will be submitted for EI Compendex. Excellent papers selected by the conference will be recommended for publication in *The Journal of Engineering and Science in China Series F Information Sciences* (Sci China F).

### Technical Programme and Scope :

The conference will consist of several parallel sessions to provide the program with breadth and depth by plenary talks, tutorials, oral and poster presentations, and commercial exhibitions, along with some special technical sessions. Contributions are encouraged from, but not limited to, the following topics:

#### Radar Systems

- Airborne Radar
- Spaceborne Radar
- Low Frequency Radar
- Naval and Coastal Surveillance Radar
- Bi-static/Multi-static/Netted Radar
- Distributed Radar/MIMO Radar
- Weather Radar
- Automotive Radar/Automatic Cruise Radar
- Ground Penetrating/Thru-wall Detection Radar
- Environment/Atmospheric/Geophysical Sensing Radar
- Bio-medical Imaging Radar

#### Advanced RF and Antenna Technologies

- T/R Module Technology
- Antenna Design, Measurement and Calibration
- EBG/PBG New Material
- Ultra Wideband Antenna and System
- Adaptive and Smart Antenna Array
- Conformal Antenna Array
- Radar Receiver/Transmitter
- Frequency Synthesizer

#### Radar Signal and Data Processing

- Waveform Design and Optimization
- Digital Beamforming
- Space Time Adaptive Processing
- Target Detection and Tracking
- Target Identification and Recognition
- Data Fusion and Information Fusion
- High-speed Real-time Signal Processing

- Interference Suppression and Anti-Jamming
- Advanced Signal Processing Algorithms
- Machine Learning
- Bigdata Processing in Microwave Remote Sensing

#### SAR and ISAR

- Spaceborne/Airborne SAR
- UAV/ Mini-SAR
- Bi-static and Multi-static SAR/ISAR
- Ground-based SAR/D-InSAR
- SAR Polarimetry and Interferometry
- SAR Instrument and Calibration
- SAR/ISAR Modeling and Simulation
- Ultra Wideband SAR
- MIMO-SAR
- Multi-channel/Multi-frame SAR
- Video SAR
- SAR Ground Moving Target Indication/Change Detection
- SAR/ISAR Information Extraction

#### Target and Environment Characteristics

- Target RCS Simulation, Measurement and Analysis
- Clutter Signature Modeling and Simulation
- Foliage/Building Penetration
- ECM/ECCM
- Ocean/Terrain/Building Scattering Modeling and Simulation
- Ionosphere Propagation Effects

#### Emerging Technology

- Laser Radar/Laser SAR
- Cloud and Rain Radar
- Geosynchronous Earth Orbit SAR/D-InSAR
- Small Satellite Technology
- Compressive Sensing Radar
- GNSS-R Sensors
- Tera-Hertz Technology
- Cognitive Radar
- Radar Vision
- Education and Remote Sensing