

**Chongqing** is China's famous historical and cultural city. It is one of four municipalities in China and the most economically important city in West China. Located on the edge of the Yungui Plateau, and surrounded by small green capped mountains, Chongqing City is intersected by the Jialing River and the upper reaches of the Yangtze. Its Ba cultures, Three Gorges culture, The Three Kingdoms culture, modern urban civilization make Chongqing feature in extremely rich cultural tourism resources.



Chongqing



Ciqikou ancient town

Also, Chongqing has the unique geographical conditions and the collecting of the mountains, water, forestry, spring, waterfall, hole, gorge; and the most outstanding peculiar natural tourism resource is canyon scenery.



Monument to the people's Liberation



Hong Ya Dong

The famous are the Three Gorges (Qutang Gorge, Wu Gorge, Xiling Gorge) and Small Three Gorges. Also, the Three Gorges Dam and the Gezhou Dam in Chongqing are world-famous.



# IET International Radar Conference 2020

4-6 November 2020, Chongqing, China

## CALL FOR PAPERS

### Sponsors



Beijing Institute of Technology



Radar Society of Chinese Institute of Electronics



Signal Processing Society of Chinese Institute of Electronics

### Important Dates

Paper Submission Deadline: 30 June 2020  
 Paper Acceptance Notification: 31 July 2020  
 Camera-ready Paper Submission: 31 August 2020  
 Conference Date: 4-6 November 2020

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### About the event

IET International Radar Conference 2020 will be held on 4-6 November 2020 in Chongqing city, China. This is the fifth IET International Radar Conference series in China after the first four successful conferences held in April 2009, Guilin, April 2013, Xi'an, October 2015, Hangzhou, and October 2018, Nanjing, 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. 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.



### 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
- Penetrating Radar
- Thru-wall Detection Radar
- Environment/Atmospheric/Geophysical Sensing Radar
- Bio-medical Imaging Radar

#### Advanced RF and Antenna

- 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 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

- Quantum Radar
- 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
- Artificial Intelligence Applied in Radar
- Microwave Photonics in Radar
- Radar Aeroecology