



# ISAPE 2024

## The 14th International Symposium on Antennas, Propagation and EM Theory

October 23-26, 2024, Hefei, China

### Call for Papers

<https://www.rpsoc.cn/isape2024>

#### General Chairs

**Xianliang Wu**, Anhui university, China  
**Jian Wu**, China Research Institute of Radiowave Propagation, China

#### General Co-Chairs

**Zhixiang Huang**, Anhui university, China  
**Baoliang Hao**, China Research Institute of Radiowave Propagation

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**Danilo Erricolo**, University of Illinois at Chicago, USA  
**Lixin Guo**, Xidian University, China  
**Jun Hu**, University of Electronic Science and Technology of China, China  
**Yi Huang**, The University of Liverpool, UK  
**Lixia Yang**, Information Materials and Intelligent Sensing Laboratory of Anhui Province (Anhui University), China  
**Xiongwen Zhao**, North China Electric Power University, China

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**Lanjie Niu**, Technology on Electromechanical Dynamic Control Laboratory, China  
**Jian Meng**, National Key Laboratory of Electromagnetic Space Security  
**Feng Jiang**, National Key Laboratory of Electromagnetic Space Security  
**Song Guan**, National Key Laboratory of Electromagnetic Space Security  
**Meng Kong**, Anhui Province Key Laboratory of simulation and design for Electronic information system(Hefei Normal University)

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**Lixia Yang**, Information Materials and Intelligent Sensing Laboratory of Anhui Province (Anhui University), China

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**Tie Li**, Technology on Electromechanical Dynamic Control Laboratory, China  
**Jie Gu**, National Key Laboratory of Electromagnetic Space Security, China  
**Wei Wang**, National Key Laboratory of Electromagnetic Space Security, China  
**Tongyu Liu**, National Key Laboratory of Electromagnetic Space Security, China  
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**Cunxiang Wang**, CIE Antennas Society, China

#### Publication Chair

**Ming Fang**, Anhui Province Engineering Research Center of RF Integrated Circuit Design and Packaging (Anhui University)

The International Symposium on Antennas, Propagation and EM Theory (ISAPE), a serial symposium on antennas, propagation, and EM theory, held every two years, always offers an active forum for exchanging creative ideas and experiences of the latest developments, designs in the areas of antennas, propagation, and electromagnetic theory for professors, researchers, engineers and students all over the world. The 14th International Symposium on Antennas, Propagation and EM Theory (ISAPE 2024) will be held in Hefei, China from October 23 to 26, 2024. The conference language is English. Scholars, engineers and students are welcome to contribute and participate in the symposium.

#### Topics

- Antennas and related topics**  
Antenna Theory, Antenna Feeds and Matching Circuit, Microstrip Antennas, Arrays and Circuits, Phased-array Antennas, Electrically Small Antennas, Adaptive, Active, and Smart Antennas, Multi-Band Antennas, Broadband/Ultra-wideband Antennas, Guided and Leaky Wave Antennas, 3D Printed Antennas and Structures Dielectric Resonator Antennas, Mutual Coupling in Antenna Arrays, Other types of antennas etc.
- Propagation and related topics**  
Mobile & Indoor Propagation & Modeling, Millimeter & Optical Wave Propagation, Propagation at THz Band, Earth-Space & Terrestrial Propagation, Radio Meteorology, Remote Sensing, SAR Polarimetry & Interferometry, Tunnel Propagation, Propagation in Ionized and Non-Ionized Media, etc.
- EM theory and related topics**  
Theoretical electromagnetics, Nonlinear electromagnetics, Transient fields and effects, Ultra-wideband electromagnetics, Bio-electromagnetics, Geo-electromagnetics, THz electromagnetics, Nano-electromagnetics, Electromagnetic interaction and coupling, Electromagnetic radiation, etc.
- Computational electromagnetics**  
Integral Equation Methods, Differential Equation Methods, Domain Decomposition Methods, Hybrid Techniques, Optimization Methods in EM Designs, Asymptotic & High-Frequency Techniques, Fast Direct Methods, Time Domain/Frequency Domain Methods, etc.
- Electromagnetic compatibility and related topics**  
Electromagnetic environment effects, Electromagnetic noise and interference sources, Computational electromagnetics & multiphysics in electromagnetic compatibility and protection, Model Validation, etc.
- Wireless communication antennas and propagation related topics**  
5G and 6G terrestrial channel measurement and models, 6G space-air-ground channel measurement and models, RIS channel measurement and models, Channel sounding and parameter estimation techniques, Channel emulation and test techniques, Massive MIMO channel propagation and models, Millimeter-wave propagation and antennas, Sub-mm-wave, terahertz, optical propagation and antennas, Intelligent radio environment using reconfigurable intelligent surfaces etc.
- Others**  
High-Power Microwave Applications, UWB & Impulse Applications, Ubiquitous Network Systems, Radio Technologies for Intelligent Transport Systems, Subsurface Sensing, MEMS-NEMS & MMIC, Integrated Communications and Sensing System etc.

#### Electronic Paper Submission

Prospective authors are invited to submit manuscripts in electronic (PDF) format only. All papers must be written in English and limited to 2-4 pages including text, references, and figures. A template is available on the ISAPE 2024 website. Papers submitted will be peer reviewed and accepted papers will be submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirements.

#### Best Paper Award for Young Scientists

The ISAPE2024 Best Paper Award for Young Scientists recognizes outstanding contribution to science or technology in the areas of antennas, propagation and electromagnetic theory. The age of the first author should be under 35 years old. The candidate should give an oral presentation of their work at the conference. There will be 10 winners and each award winner will receive a prize of 1,000 RMB and a certificate of recognition. All the young scientists are encouraged to participate the selection.

#### Important Dates

**Paper Submission Deadline:** July 5, 2024  
**Notification of Acceptance:** August 15, 2024

#### Proceedings

The ISAPE E-Proceedings of full papers will be available to all delegates attending the conference. Papers submitted will be peer reviewed and accepted papers will be submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirements. Previous ISAPE conference papers were indexed by EI Compendex.

**Email and Website:** [isape2024@163.com](mailto:isape2024@163.com) <https://www.rpsoc.cn/isape2024>

# ISAPE

The history of the first International Symposium on Antennas, Propagation and EM Theory dates back to 1988, when the first International Symposium on Radiowave Propagation (ISRP) was sponsored by Chinese Institute of Electronics (CIE) and organized by China Research Institute of Radiowave Propagation (CRIRP) at Fragrant Hill Hotel in Beijing. According to the international situation and professional development requirements, it was renamed as International Symposium on Antennas, Propagation and EM Theory (ISAPE) in 2000. This symposium is the only international conference sponsored by CIE and organized by CIE Radio Propagation Society and CIE Antennas Society, offering an important academic forum in the areas of antennas and radio wave propagation all over the world. So far, it has been held in Beijing, Qingdao, Guangzhou, Xi' an, Guilin, Hangzhou, Zhuhai and other cities in China for 13 sessions.

## Hefei

Hefei, located in the heart of Anhui province, serves as a bridge between the east and west and is a key city in the Yangtze River Delta urban cluster. Hefei is an internationally influential innovative city with remarkable achievements in the construction of a comprehensive national science center. Hefei is an important base for advanced manufacturing in China. It has established a strategic emerging industry pattern centered around "semiconductor, display, automobile, and artificial intelligence." Integrated circuits, new displays, and artificial intelligence have been selected as the first batch of national strategic emerging industry clusters, ranking fourth in the country in terms of the number of approved clusters. Intelligent voice has become a national advanced manufacturing cluster. Hefei is the permanent venue for the World Manufacturing Convention. There are rich tourism resources in Anhui Province. Huangshan Mountain is a representative of Anhui's natural beauty and has been listed as a UNESCO World Heritage Site. Jiuhua Mountain is one of the Four Sacred Buddhist Mountains in China. Qiyun Mountain is known for its cliff stone carvings, Taoist relics, and unique Danxia landforms. Tianzhu Mountain is known for its majestic and exquisite beauty. Langya Mountain gained fame worldwide due to Ouyang Xiu's literary work "The Pavilion of the Drunken Immortal" during the Song Dynasty.



## VENUE/TRANSPORTATION

The conference venue, Sunac Resort Hotel Complex, which include five hotels of Steigenberger Icons Hefei, Lebanshan, Pullman, Novotel and Mercure. The Hotel Complex is located in Binhu New Area of Hefei city, is situated in a prime location in Hefei city, adjacent to Wanda City Station on Metro Line 1. The hotel is only 13 kilometers away from Hefei South Railway Station and 54 kilometers away from Xin Qiao International Airport, ensuring convenient transportation for all guests. The hotel is also close to Chaohu, Hefei Rongchuang Amusement Park, and Rongchuang Water World. The Steigenberger Icons and Pullman hotel website:

<http://steigenberger.hotelhefei.cn/en>  
<http://pullmanwanda.hotelhefei.cn/en>



 Hotel Steigenberger Icons	 Hefei South Railway Station
 Hotel Lebanshan	 Hefei Railway Station
 Steigenberger Hotel Grand Ballroom	 Xin Qiao International Airport
 Lebanon Grand Ballroom	
 Hotel Pullman	
 Hotel Novotel	
 Hotel Mercure	

**Global Overview Sunac Resort Hotel Complex**

**Hefei South Railway Station**  
Takes 13 kilometers away from the hotel complex, taxi fee is around 20 (RMB) and it will take about 20 min.  
Metro: Take Metro Line 1 (Chaohu direction) and get off at Wanda Station (13 stops, 1st station) and it is 13 kilometers from hotel complex, it will take about 20 min.

**Hefei Railway Station**  
Takes 13 kilometers away from the hotel complex, taxi fee is around 20 (RMB) and it will take about 20 min.  
Metro: Take Metro Line 1 (Chaohu direction) and get off at Wanda Station (13 stops, 1st station) and it is 13 kilometers from hotel complex, it will take about 20 min.

**Xin Qiao International Airport**  
Takes 54 kilometers away from the hotel complex, taxi fee is around 120 (RMB) and it will take about 30 min.  
Metro: Take Metro Line 1 (Chaohu Railway Station (13 stops), and then take Metro Line 1 (Chaohu direction) and get off at Wanda Station (13 stops, the station and it is 13 kilometers from hotel complex, it will take about 20 min and 30 min.

**Sponsored by** Chinese Institute of Electronics (CIE)  
**Organized by**

- CIE Radio Propagation Society
- CIE Antennas Society
- Anhui University (AHU)
- China Research Institute of Radiowave Propagation (CRIRP)

### Co-Organized by

- National Key Laboratory of Electromagnetic Environment
- National Key Laboratory of Electromagnetic Space Security
- Science and Technology on Electromechanical Dynamic Control Laboratory
- Yunnan Kunming Electromagnetic Environment National Observation and Research Station
- Anhui Province Key Laboratory of simulation and design for Electronic information system, Hefei Normal University
- Key Laboratory of Intelligent Computing and Signal Processing of Ministry of Education
- Information Materials and Intelligent Sensing Laboratory of Anhui Province
- Anhui Province Engineering Research Center of RF Integrated Circuit Design and Packaging
- Key Laboratory of Electromagnetic and Optical information Perception in Complex Environment, Ministry of Education

### Technically co-sponsors

- IEEE Antennas and Propagation Society (AP-S)
- URSI-CIE
- IEEE APS/MTTS Guangzhou Joint Chapter

**Support Media** Chinese Journal of Radio Science

## CONTACT

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Website: <https://www.rpsoc.cn/isape2024>



# ISAPE 2024 第十四届天线、传播和电磁理论国际会议

2024年10月23日至26日，中国，合肥

## 征稿通知

<https://www.rpsoc.cn/isape2024>

### 大会主席

吴先良 安徽大学  
吴健 中国电子学会电波传播分会

### 大会共主席

黄志祥 安徽大学  
郝保良 中国电波传播研究所

### 程序委员会主席

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Danilo Erricolo 美国伊利诺伊大学芝加哥分校  
郭立新 西安电子科技大学  
胡俊 电子科技大学  
黄漪 英国利物浦大学  
杨利霞 信息材料与智能感知安徽省实验室（安徽大学）  
赵雄文 华北电力大学

### 程序委员会共主席

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牛栏杰 机电动态控制重点实验室  
孟建 电磁空间安全全国重点实验室  
江锋 电磁空间安全全国重点实验室  
关松 电磁空间安全全国重点实验室  
孔勤 电子信息系统仿真设计安徽省重点实验室（合肥师范学院）

### 组织委员会主席

杨利霞 信息材料与智能感知安徽省实验室（安徽大学）

### 组织委员会共主席:

朱秀芹 电波环境特性及模化技术重点实验室  
李铁 机电动态控制重点实验室  
顾杰 电磁空间安全全国重点实验室  
王巍 电磁空间安全全国重点实验室  
刘彤宇 电磁空间安全全国重点实验室  
张忠祥 电子信息系统仿真设计安徽省重点实验室（合肥师范学院）

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任信钢 计算智能与信号处理教育部重点实验室（安徽大学）  
赵蕾 中国电子学会电波传播分会  
王存祥 中国电子学会天线分会

### 出版委员会主席

方明 安徽省射频集成电路设计与封装工程研究中心（安徽大学）

天线、传播与电磁理论国际会议（ISAPE）是一项国际学术会议，每两年举办一次，旨在为世界各地的学者、研究人员、工程师和学生提供了一个交流天线、传播和电磁理论领域最新进展的平台。第十四届天线、传播与电磁理论国际会议（ISAPE2024）将于2024年10月23日至26日在中国合肥举办。本届会议工作语言为英文。欢迎广大学者、工程技术人员和学生积极投稿、踊跃参会。

### 征文范围

- 天线相关主题**  
天线理论、阵列天线、MIMO天线、自适应、有源和智能天线、多频天线、宽带/超宽带天线、相控阵天线、多波束天线、电小天线、导波和漏波天线、超材料天线、3D打印天线、介质天线、封装天线、集成天线、毫米波天线、太赫兹天线、其他天线等。
- 传播相关主题**  
移动和室内传播与建模、毫米波与光波传播、太赫兹频段传播、地-空与地面传播、无线电气象、遥感、SAR极化仪和干涉仪、隧道传播、在电离和非电离介质中的传播等。
- 电磁理论相关主题**  
理论电磁学、非线性电磁学、瞬态电磁场和效应、超宽带电磁学、生物电磁学、地球电磁学、太赫兹电磁学、纳米电磁学、电磁感应和耦合、电磁辐射等。
- 计算电磁学相关主题**  
积分方程法、微分方程法、域分解方法、混合技术、电磁设计中的优化方法、渐近和高频技术、快速直接法、时域/频域法等。
- 电磁兼容相关主题**  
电磁兼容性和保护、电磁环境影响、电磁噪声和干扰源、模型验证等。
- 无线通信和信道相关主题**  
5G和6G地面信道测量和模型，6G空间地空信道测量和模型，可重构智能超表面（RIS）信道测量和模型，卫星信道测量和模型，信道声纳和参数估计技术，信道仿真和测试技术，大规模MIMO信道传播和模型，毫米波传播和天线，亚毫米波、太赫兹、光学传播和天线、基于可重构智能表面技术的智能无线环境等。
- 其他相关主题**  
大功率微波应用、超宽带和脉冲应用、泛在网络空间、智能运输系统的无线电技术、地下传感、MEMS-NEMS和IMMIC、综合通信与感知系统等。

### 电子稿件提交

论文作者需提交电子（PDF）格式的稿件。所有论文必须用英文撰写，并限制在2-4页内，包括正文、参考文献和图表。ISAPE 2024网站上提供了模板。提交的论文将经过同行评审，满足IEEE Xplore 范围和质量要求的被接收论文提交给IEEE Xplore数据库。

### 青年优秀论文奖

ISAPE2024会议设置青年优秀论文奖，旨在表彰在天线、传播和电磁理论领域做出杰出贡献的人士，参选论文第一作者年龄应在35岁以下，且需要在会议上进行口头报告。会议将设置10名青年优秀论文奖，所有获奖者将获得1000元人民币的奖金和获奖证书。会议鼓励所有年轻科学家参加评选。

### 重要日期

论文投稿截止日期 2024年7月5日  
录用通知日期 2024年8月15日

### 会议论文集

ISAPE 电子会议论文集将提供给参加会议的所有代表。提交的论文将经过同行评审，经审查符合IEEE Xplore的范围和质量要求后，被接受的论文将提交到IEEE Xplore。已召开ISAPE会议接收的论文已被EI Compendex索引。

### 邮箱和网站

isape2024@163.com <https://www.rpsoc.cn/isape2024>

