



# 2024 年國際無線感測技術與應用研討會 暨 自動識別亞洲峰會

IEEE International Workshop on Wireless Sensing  
Technologies and Applications 2024  
AIDC Connect Asia 2024

Final Program



November 19 - 20, 2024  
Regency Art Hotel  
Macao SAR, China

## IEEE IWSA & AIDC Connect Asia 2024 – Program at a Glance

|                               |               |   |
|-------------------------------|---------------|---|
| <b>Nov.<br/>18<br/>(Mon.)</b> | 12:00 – 15:00 | <b>AIM Board Meeting (Invited Only)</b><br><i>L'Arc Hotel</i> |
|                               | 18:30 – 20:30 | <b>Welcome Reception (Invited Only)</b>                       |

|                               |               |  |
|-------------------------------|---------------|--|
| <b>Nov.<br/>19<br/>(Tue.)</b> | 09:00 – 17:00 | Registration   |
|                               | 09:30 – 10:15 | <b>Opening Ceremony</b><br><i>Ballroom</i>                     |
|                               | 10:15 – 10:50 | <b>Exhibition Tour + Tea Break</b><br><i>Ballroom / Foyer</i>  |
|                               | 10:50 – 11:00 | <b>MoU Signing</b><br><i>Ballroom</i>                          |
|                               | 11:00 – 11:10 | <b>AIM Asia Award Presentation</b><br><i>Ballroom</i>          |
|                               | 11:10 – 11:40 | <b>Keynote Speech I</b><br><i>Ballroom</i>                     |
|                               | 11:40 – 12:20 | <b>Business Introductions &amp; Sharing</b><br><i>Ballroom</i> |
|                               | 12:30 – 14:30 | <b>Lunch</b><br><i>Chinese Restaurant</i>                      |
|                               | 14:30 – 15:30 | <b>Panelist Discussion I</b><br><i>Ballroom</i>                |
|                               | 15:30 – 16:30 | <b>Panelist Discussion II</b><br><i>Ballroom</i>               |
|                               | 16:30 – 17:00 | <b>Tea Break</b><br><i>Foyer</i>                               |
|                               | 17:00 – 17:30 | <b>Keynote Speech II</b><br><i>Ballroom</i>                    |
|                               | 17:30 – 18:00 | <b>Keynote Speech III</b><br><i>Ballroom</i>                   |
|                               | 18:30 – 21:30 | <b>Banquet</b><br><i>Zam Zam Restaurant</i>                    |

|                               |               |   |
|-------------------------------|---------------|---|
| <b>Nov.<br/>20<br/>(Wed.)</b> | 08:25 – 12:00 | Registration  |
|                               | 08:25 – 10:40 | <b>Technical Paper Session 1</b><br><i>Ballroom</i>                     |
|                               | 10:40 – 11:00 | <b>Tea Break</b><br><i>Foyer</i>  |
|                               | 11:00 – 13:15 | <b>Technical Paper Session 2</b><br><i>Ballroom</i>                     |
|                               | 13:20 – 15:30 | <b>Lunch and Best Paper Award</b><br><i>Zam Zam Restaurant</i>          |
|                               | 16:00 – 17:00 | <b>Organization Committee Meeting (Invited Only)</b><br><i>Ballroom</i> |

**END of IEEE IWSA & AIDC Connect Asia 2024**

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# Final Program

## 2024 年國際無線感測技術與應用研討會 暨 自動識別亞洲峰會

### IEEE International Workshop on Wireless Sensing Technologies and Applications (IWSA 2024)

### AIDC Connect Asia 2024

Regency Art Hotel, Macao SAR, China

November 19 – 20, 2024

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#### **Organized by**

IEEE Macau AP/MTT Joint Chapter

AIM Asia

University of Macau

IEEE Council on RFID Macau Chapter

Shenzhen University

Nanjing Normal University

Soochow University

Foshan University

Jinan University

Guangdong Key Laboratory of Speed-Capability Research

Guangdong-Hong Kong-Macao Joint Laboratory for Millimeter-Wave and Terahertz

Crosstech Innovation Group

Paradise Entertainment Ltd.

Foshan Lambda Technology Co., Ltd.

Shenzhen Internet of Things Industry Association

Ikenna Holdings

#### **Technical Sponsor**

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Prof. Zhi Ning Chen, *National University of Singapore*

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*Thai-International AIOT Association* President & *HIP Global* President Mr. Taveechai Yang

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*Rain Alliance* President Ms. Aileen Ryan

*LogiMat* MD Mr. Peter Kazandar

*Digital China* CEO Mr. Yan Jun

*SML Group* Vice President Ms. Lesley Suen

*LT Game* Founder & CEO Dr. Jay Chun

*Hong Kong Communications*, Chairman, JP. Dr. Hubert Chan

*Tessellation International* Associate Director Benedict Chan

*Mapxus Technologies* Founder & CEO Dr. John Chan

*Aeroprint Hong Kong* Founder & CEO Mr. Eric Au

*Cherson Technologies* Founder & CEO Mr. Eric Lee

*Urovo* Vice President Helen Ha

# Welcome Messages

## Welcome Message from IEEE IWSA 2024

By Prof. Kam-Weng TAM (Ken)

General Chair

University of Macau

Welcome to the 2024 IWSA and AIDC Connect Asia 2024, hosted in the vibrant city of Macau. This marks an exciting collaboration between the second annual editions of IWSA and AIDC Connect Asia, bringing together academic researchers, industry leaders, and innovators to explore advancements in wireless sensing and automatic identification technologies.

IWSA serves as a premier platform for academic and industrial synergy, with a focus on wireless sensing innovations powered by RF and photonic technologies. This year's event highlights include over 30 technical presentations, three keynote sessions by distinguished speakers, and contributions from nine exhibitors showcasing cutting-edge developments.

The partnership with AIM Asia strengthens our global reach, reflecting a shared commitment to advancing these transformative technologies. We are honored to welcome participants from across Asia, Portuguese-speaking countries, Mainland China, Hong Kong, and beyond, fostering a truly international exchange of ideas and expertise.

I extend my sincere gratitude to the organizers, sponsors, exhibitors, and all attendees for making this event possible. Your active participation is key to the success of this gathering, and I encourage you to take full advantage of the opportunities for learning, discussion, and collaboration.

We hope you find this event engaging, inspiring, and impactful. Thank you for joining us, and I wish you a successful conference.



## Welcome Message from AIDC Connect Asia 2024

By Dr. Pui Yi LAU (Anna)

President of AIM Asia

Welcome to the IWSA & AIDC Connect Asia 2024! This marks our second annual conference, and we are thrilled to host it in the dynamic and captivating city of Macau. As President of AIM Asia, I am delighted to see such a diverse and distinguished group of academic researchers, innovators, industry leaders, and thought pioneers from across Asia and beyond gathered here to explore the vast potential of Automatic Identification and Data Capture (AIDC).

This event symbolizes our collective dedication to advancing AIDC technologies and applications within our region and globally. Our journey is one of collaboration, and events like this are crucial for igniting the ideas and partnerships that will shape our future. From advancements in RFID and barcode technology to IoT integration and AI-driven solutions, the AIDC landscape is constantly evolving, presenting unprecedented opportunities across supply chains, logistics, healthcare, manufacturing, and more.

We look forward to an engaging exchange of knowledge, insights, and experiences. Let us seize this opportunity to share our visions, tackle new challenges, and spark transformative discussions that will elevate AIDC in Asia to new heights.



## Exhibition

| Date                    | Time        |
|-------------------------|-------------|
| 19 November (Tuesday)   | 10:15-18:00 |
| 20 November (Wednesday) | 08:25-13:15 |

### List of Exhibitors

|   |   |
|---|---|
| 慧倉機器人<br>HC ROBOTICS  |  <b>慧倉机器人</b><br>HC ROBOTICS              |
| 佛山藍譜達科技有限公司<br>Foshan Lambda Technology Co., Ltd.               |  <b>LAMBMICROW</b><br>藍譜達                 |
| 匯彩控股有限公司<br>Paradise Entertainment Ltd.                         |  <b>匯彩控股</b><br>Paradise entertainment   |
| 澳門無境科技<br>Macau Wujing Technology                               |  <b>澳門無境科技</b><br>Macau Wujing Technology |
| 愛科信控股<br>Ikenna Holdings  |  <b>IKenna</b>                          |
| 流形科技有限公司<br>Manifold Tech Ltd.                                  | <br>Manifold Tech Limited              |
| 華盛創建  |  <b>華盛創建</b>                           |
| 易識有限公司<br>eSIX Limited  |                                        |
| 明天科技有限公司<br>Tomorrow Technology Co. Ltd.                        |  <b>明舌科技</b><br>TomorrowTechnology      |
| 廣州億航智能技術有限公司<br>Guangzhou EHang Intelligent Technology Co. Ltd. |   |



## Detailed Program – 19 November (Tuesday)

### Opening Ceremony

**Time/Date** 09:30 – 10:15 / 19 November 2024 (Tuesday)  
**Venue** Ballroom

### Ribbon Cutting Ceremony

### Presentation of Souvenirs

#### Sponsors

- 澳門山東社團總會
- Paradise Entertainment Limited
- General Manager of Regency Art Hotel

#### AIM Asia VIPs:

- Digital China Group
- Ikenna Holdings
- SML Group
- AIM Global
- RAIN Alliance
- LogiMAT
- HIP Global
- HKIOT

#### Exhibitor

- LT Game
- HC Robotics
- EHang Intelligent Technology
- Manifold Tech Ltd.
- Crosstech Innovation Group
- Ikenna Holdings
- Macau Wujing Technology
- Foshan Lambda Technology
- Tomorrow Technology
- ESIX Limited
- 華盛創建(澳門)有限公司

### Welcome Speech by IEEE IWSA 2024 General Chair

Prof. Kam Weng Tam, University of Macau

### Welcome Speech by AIDC Connect Asia 2024

Dr. Pui Yi LAU (Anna), President of AIM Asia

### END OF OPENING CEREMONY

10:15 – 10:50

### Exhibition Tour + Tea Break

## MoU Signing

**Time/Date** 10:50 – 11:00 / 19 November 2024 (Tuesday)

### Event Overview:

Signing of two Memorandum of Understanding (MoU)

#### 1. AIM Asia and Thai-International AIOT Association

MoU Signing by:

- Dr. Pui Yi LAU (Anna), AIM Asia President
- Taveechai Yang, Thai-International AIOT Association President

#### 2. AIM Asia, Logistics Exhibitions GmbH for LogiMAT China, LogiMAT Southeast Asia and LogiMAT India and IEEE Macau AP/MTT Joint Chapter

MoU Signing by:

- Dr. Pui Yi LAU (Anna), AIM Asia, President
- Prof. Kam-Weng Tam, IEEE Macau AP/MTT Joint Chapter, Chairman
- Mr. Peter Kazander, Logistics Exhibitions GmbH representing Landesmesse Stuttgart GmbH & Co. KG, Managing Director

## AIM Asia Award Presentation

**Time/Date** 11:00 – 11:10 / 19 November 2024 (Tuesday)

**Venue** Ballroom

### Event Overview:

**AIM Asia Award Presentation to new members:**

**(Presented by Anna Lau, AIM Asia President)**

- Urovo Helen Ma
- LT Game Dr. Jay Chun
- Tessellation International Mr. Benedict Chan
- DKP Sherolyn Ong
- EM Microelectronic Mr. Yaw Peng Ng
- R&S Mr. Anntat Kuah

## Keynote Speech I

|                  |   |
|------------------|---|
| <b>Time/Date</b> | 11:10 – 11:40 / 19 November 2024 (Tuesday)  |
| <b>Venue</b>     | Ballroom  |
| <b>Title</b>     | <b>The enabling Technology for an intelligent Supply Chain Automation – Innovation – Sustainability</b> |
| <b>Speaker</b>   | Mr. Peter Kazander, Managing Director of Logistics Exhibitions GmbH                                     |
| <b>Chair</b>     | Dr. Anna Lau (AIM Asia)   |

### Biography

**Peter Kazander** is the Managing Director of Logistics Exhibitions GmbH, a subsidiary of EUROEXPO Messe- und Kongress-GmbH, Munich and Landesmesse Stuttgart GmbH & Co. KG, Stuttgart. Initiator and developer of LogiMAT, International Trade Fair for Intralogistics Solutions and Process Management in Stuttgart and responsible for LogiMAT China, LogiMAT India and LogiMAT Southeast Asia.

### Abstract

Imagine a supply chain, a warehouse management system or a production process without identification and data capture technologies. That would take us decades back in time. AIDC represents a broad range of technologies with specific characteristics, challenges and opportunities to speed up processes and reduce costly human errors. What hurdles have we had to overcome to enable today's logistics processes and what will be the challenges in the near future? AIDC enables intelligent processing and connects markets worldwide through innovation and standardization.

**Peter Kazander** was born in 1955 in one of the most important European logistics locations, Rotterdam. His career began practically right outside the city – in the Deep-Sea sector. This was followed by ten years as a short sea transport manager in Rotterdam. In the early 1990s he moved to Germany and worked in leading positions in consulting, sales and marketing at a Munich IT provider. From May 2003, he led the team at EUROEXPO Messe- und Kongress GmbH in Munich for over 20 years. Since 2013, Kazander is Managing Director of Logistics Exhibitions GmbH and in this position, he is responsible for the international development of the LogiMAT trade fairs in Asia.

## **Business Introductions & Sharing**

**Time/Date** 11:40 – 12:20 / 19 November 2024 (Tuesday)  
**Venue** Ballroom  
**Host** Ngai Kong, Nelson (Crosstech Innovation Group Ltd)  
**Introductions by:**

### **eSIX Limited**

eSIX Limited is a leader in technological innovation, dedicated to developing impactful solutions across various industries. Our IPfiber technology establishes a seamless 5G Metro Ethernet infrastructure, enhancing service coverage and mobility while providing businesses with the flexibility and reliability needed for optimal network performance.

### **Manifold**

Manifold Tech is a high-tech 3D scanning and modeling, robotics, and algorithm company founded in October 2021, originating from the University of Hong Kong's Department of Mechanical Engineering and Robotics Systems (MaRS) laboratory. Manifold Tech is a pioneering high-technology company specializing in 3D photogrammetry and robotics and with our state-of-the-art real-time 3D mapping algorithms and advanced robotics technology, they are reshaping the way Architecture, Engineering, and Construction (AEC) companies operate and empowering ESG (Environmental, Social, and Governance) projects to achieve new heights.

12:30 – 14:30 **Lunch**

## Panelist Discussion I

**Time** 14:30 – 15:30 / 19 November 2024 (Tuesday)  
**Venue** Ballroom  
**Chair** Dr. Anna Lau (AIM Asia)

### Panel Discussion I: Building Synergies in AIDC and AIOT for Retail, Logistics, and ESG

#### Distinguished Panelists:

**Dr. Anna Lau**

*AIM Asia*

*President*

**Alien Ryan**

*RAIN Alliance*

*CEO*

**Taveechai Yang**

*Thai-International AIOT Association*

*President*

**Elizabeth Sinclair**

*AIM Global*

*Board of Director*

**Masaki Ehara**

*AIM Japan*

*Chairman*

**Wilson Chong**

*HKIOT*

*President*

## Panelist Discussion II

**Time** 15:30 – 16:30 / 19 November 2024 (Tuesday)  
**Venue** Ballroom  
**Chair** Yaw Peng Ng (EM Microelectronic)

### Panel Discussion II: RFID and its Role in Logistics, Retail, and Consumer Engagement

#### Distinguished Panelists:

**Yaw Peng Ng**

*EM Microelectronic*

*General Manager*

**Anntat Kueh**

*Rohde & Schwarz*

*Senior Director*

**Dr. Hubert Chan**

*HKC*

*Chairman*

**Lesley Suen**

*SML Group*

*VP of Transformation and General Manager  
of Greater China*

**Peter Kazander**

*LogiMat*

*Managing Director*

## Keynote Speech II

|                  |  |
|------------------|--|
| <b>Time/Date</b> | 17:00 – 17:30 / 19 November 2024 (Tuesday)                               |
| <b>Venue</b>     | Ballroom   |
| <b>Title</b>     | <b>The MA Digital Product Passport Enables Global Trade Facilitation</b> |
| <b>Speaker</b>   | Ms. Elma Liu, Deputy Director of International Affairs of ZIIOT          |
| <b>Chair</b>     | Dr. Anna Lau (AIM Asia)  |

### Biography

**Elma (Zerong) Liu** is the Deputy Director of International Affairs at ZIIOT and serves as the project leader of IEC 63538 ED1: Life-cycle Events: Information Models and Services.

She holds an impressive academic background with three master's degrees from prestigious institutions: Peking University, Xi'an Jiaotong University, and Xidian University.

## Keynote Speech III

|                  |  |
|------------------|--|
| <b>Time/Date</b> | 17:30 – 18:00 / 19 November 2024 (Tuesday)   |
| <b>Venue</b>     | Ballroom   |
| <b>Title</b>     | <b>Future of AI in Indoor Positioning Technologies and Their Impact on Enhancing User Experiences in the Retail Industry</b> |
| <b>Speaker</b>   | Dr. John Chuen-Yu Chan, Founder/CEO at Mapxus Technology Limited   |
| <b>Chair</b>     | Dr. Anna Lau (AIM Asia)  |

### Biography

**Dr. John Chuen-Yu Chan** is the founder and current CEO of Maphive Technology Limited, a company with operations in Osaka, Singapore, Taichung, Hong Kong, and Foshan City. He is also the founder of Location AI Technology Limited, formerly known as Locision Technology Limited.

From 2006 to 2012, Dr. Chan served as a distinguished professor and held senior management positions at Sun Yat-sen University. In 2011, he was nominated for the prestigious ENI Award (Protection of the Environment Prize). Over the course of his career, Dr. Chan has published more than 100 works, including patents and academic publications, which have earned over 5,783 citations on Google Scholar and an H-Index of 44.

|               |   |
|---------------|---|
| 18:30 – 21:30 | <b>Banquet</b><br><i>Zam Zam Restaurant</i> |
|---------------|---|

## Detailed Program – 20 November (Wednesday)

08:25 – 12:00

**Registration**

### Regular Paper Presentation 1

**Time** 08:25 – 10:40 / 20 November 2024 (Wednesday)

**Venue** Ballroom

**Chairs** Gang Zhang (Nanjing Normal University), Wenhai Zhang (Soochow University)

**A001** 08:25 – 08:40

Surrogate Model Assisted Frequency Selective Surfaces Multifunctional Optimization

*Hongji Li and Sai-Wai Wong*

**A002** 08:40 – 08:55

Vehicle Networking Automatic Dial-Up Testing System: Deep Integration of Data Accuracy and Application Innovation

*Liang Rao*

**A003** 08:55 – 09:10

Thermal Runaway Monitoring in Lithium-Ion Batteries via Advanced Optical Fiber Sensor

*Zhengqiang Yan, Tuan Guo, Xile Han*

**A004** 09:10 – 09:25

Analysis of Square Coaxial Transmission Line With Additive Manufacturing Insulator Support

*Xuzhou Yu, Lei Zhu*

**A005** 09:25 – 09:40

Wideband Out-of-Phase Filtering Power Divider With Arbitrary Power Dividing Ratio and High Selectivity

*Siyu Li, Junjie Zhang, Mengyu Liu, Wenju Zhang, Tianye Ma, Gang Zhang*

**A006** 09:40 – 09:55

Field Strength Assessment for Underground Wireless Communication at LF Bands

*Haruto Utsushigawa, Kun Li, Takuma Matsumoto, Shota Yamada, Takeo Fujii*

**A007** 09:55 – 10:10

A Prior-Knowledge-Based Optimization Method for Microwave Sensor Design in Heavy Metals Detection

*Peng-Fei Qin, Hao-Xuan Xian, Jing-Xi He, Yi-Min Yu, Guan-Long Huang, Xiaoming Chen, Zi-Yu Pang*

**A008** 10:10 – 10:25

Half-Mode Gap Waveguide Filtering Power Divider Based on Spoof Surface Plasmon Polariton

*Jing Lu, Jingchun Fan, Jidong Liu, Weicheng Yi, Gang Zhang*

**A009** 10:25 – 10:40

Packaged Wideband Filtering Power Divider With Out-of-Phase on Multilayer Stripline

*Qian Han, Zihan Duanmu, Runzhe Huang, Hao Xu, Tianye Ma, Gang Zhang*

10:40 – 11:00

**Tea Break**

## Regular Paper Presentation 2

**Time** 11:00 – 13:15 / 20 November 2024 (Wednesday)  
**Venue** Ballroom  
**Chairs** Sai-Wai Wong (Shenzhen University), Guanlong Huang (Foshan University)

**A010 11:00 – 11:15**

An Omnidirectional Planar Coaxial Antenna With T-Shaped Slot Structures  
*Chenglong Liao, Wenhai Zhang, Xueguan Liu, Changrong Liu, Honglong Cao, Yilin Zheng, Haipeng Zhang, Yi Gong, Chi-Hou Chio, Kam-Weng Tam*

**A011 11:15 – 11:30**

Novel Design Approaches to Planar End-Fire Dual-Band Circularly Polarized Antennas  
*Hai Peng Zhang, Wenhai Zhang, Kam-Weng Tam*

**A012 11:30 – 11:45**

Low-Loss Dual-Wideband Circularly-Polarized Antenna Using Loading Technology  
*Suchuan Qian, Xuan Li, Jie Tian, Chengji Zhao, Jing-Yi Zhang, Gang Zhang*

**A013 11:45 – 12:00**

A Pattern Reconfigurable Microstrip Patch Antenna With Through Glass via  
*DaoXi Gong, Chanxi Han, Huawei Lin, Yue Zhao, Lei Ge*

**A014 12:00 – 12:15**

A Low-Profile Broadband 2D Array Based on Inverted-E and II Shaped Shared Structure Elements  
*Yan Xu, Bin Yuan, Wenchang Wang, Zhen Liu*

**A015 12:15 – 12:30**

A Novel Circularly-Polarized Microstrip Antenna by Coupled Resonators  
*Jia-Xiang Hao, Lei Zhu*

**A016 12:30 – 12:45**

An Ultra-Wideband Antipodal Vivaldi Antenna at 0.8-30.5 GHz  
*Ming-Feng Xu, Hao-Xuan Xian, Jing-Xi He, Yi-Min Yu, Jing Wu, Hua-Feng Li, Jin-Peng He, Zi-Yu Pang, Guan-Long Huang*

**A017 12:45 – 13:00**

Curvature-Induced Performance Variations in Conformal Antennas of Wireless Sensing of Smart Jewelry  
*Wang Cheong, YongYu Huang, Huawei Lin, Chi-Hou Chio, Kam-weng Tam, Rossana Kong*

**A018 13:00 – 13:15**

A Dual-Band and Quadruple-Mode Circular Stacked Patch Antenna With Dual TM<sub>11</sub> and TM<sub>12</sub> Modes  
*Chuqi Zhuang, Huawei Lin, Zhenyao Qian, Yue Zhao, Lei Ge*

13:20 – 15:30 **Lunch and Best Paper Award**  
Zam Zam Restaurant



## Conference Venue and Travel Information



### **Regency Art Hotel** **澳門麗景灣藝術酒店**

2 Estrada Almirante Marques Esparteiro, Taipa, Macau T. 853 2883 1234  
<http://www.regencyarthotel.com.mo/>

### **Useful Telephone Numbers**

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|                                 |                      |
|---------------------------------|----------------------|
| Emergency                       | 999 / 110 / 112      |
| Police                          | 2857 3333            |
| Fire                            | 2857 2222            |
| Conde S.Januário Hospital       | 2831 3731            |
| Kiang Wu Hospital               | 2837 1333            |
| Telephone Number Enquiry        | 181                  |
| Macao International Airport     | 2886 1111            |
| Macao Government Tourist Office | 2833 3000            |
| Weather Enquiry                 | 1311                 |
| Taxi                            | 2851 9519 / 398 8800 |

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# IWSA & AIDC Connect Asia 2024

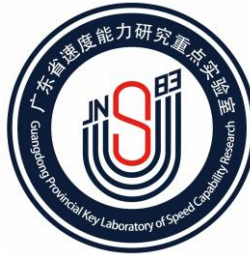
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IEEE Macau AP/MTT  
Joint Chapter



Defining Today's  
Technology Standards;  
Empowering Tomorrow's  
Solutions.



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Guangdong-Hong Kong-Macao Joint Laboratory  
for Millimeter-Wave and Terahertz



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