

2018 International Workshop on Antenna Technology (iWAT 2018)

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Date / Time: 2018-03-05 AM / 09:40 - 11:40

Venue: Room O

ORAL Session: MA2

Special Sessions: Conformal and low-profile, and small antennas –

Organizers: Quan Xue and H.Nakano

**Session Chairs: Quan Xue (City University of Hong Kong, Hong Kong)
and H.Nakano (Hosei University, Japan)**

09:40 - 10:00

Low-Profile Substrate-Integrated Dielectric Resonator Antennas **(Invited).....N/A**
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Xiu Yin Zhang (South China University of Technology, China, Mainland)

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Organizers: Thomas Zwick and Cyril Luxey

Session Chairs: Thomas Zwick (Karlsruhe Institute of Technology, Germany) and Cyril Luxey (IUT Télécom et Réseaux of University of Nice-Sophia Antipolis)

13:30 - 13:50

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Xiaodong Chen (Queen Mary University of London, United Kingdom), *Xiaohe Cheng, Yuan Yao, Zhijiao Chen, Limei Qi, Junsheng Yu* (Beijing University of Posts and Telecommunications, China, Mainland)

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Antenna Integration in Millimeter-Wave Transceivers for High Volume Applications (**Invited**).....N/A

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Organizers: Raj Mittra and Hang Wong

Session Chairs: Raj Mittra (Univeristy of Central Florida, United States)and Hang Wong (City University of Hong Kong)

15:50 - 16:10

The challenges of antenna design for 5G mobile terminals **(Invited).....N/A**
Hanyang Wang (Huawei Technologies, United Kingdom)

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Antenna Technologies for the Fifth Generation (5G) Cellular Phone Applications **(Invited).....N/A**

Guangli Yang (Shanghai University, China, Mainland)

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Date / Time: 2018-03-06 AM / 08:30 - 09:50

Venue: Room O

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**Special Sessions: Wearable and implanted antennas – Organizers:
Koichi Ito and Yayha Rhamat-Samii**

**Session Chairs: Koichi Ito (Chiba University, Japan) and
Yayha Rhamat-Samii (University of California, Los Angeles, United
States)**

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Special Sessions: Broadband and UWB antennas –

Organizers: Qing-xin Chu and Chow-Yen-Desmond Sim

Session Chairs: Qing-Xin Chu (South China University of Technology, China, Mainland) and Chow-Yen-Desmond Sim (Feng Chia University, Taiwan)

10:50 - 11:10

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Special Sessions: Metasurface-based antennas –

Organizers: Zhi Ning Chen and Yijun Feng

Session Chairs: Zhi Ning Chen (National University of Singapore, Singapore) and Yijun Feng (Nanjing University, China, Mainland)

13:30 - 13:50

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13:50 - 14:10

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14:10 - 14:30

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Yijun Feng, Ke Chen, Bo Zhu, Junming Zhao, Tian Jiang (Nanjing University, China, Mainland)

14:30 - 14:50

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Special Sessions: Metamaterials and their antenna applications –

Organizers: Douglas Werner and Hao Xin

**Session Chairs: Douglas Werner (The Pennsylvania State University)
and Hao Xin (University of Arizona)**

16:10 - 16:30

Beam Reconfigurable Antenna Composed of Holographic Metasurface
(Invited).....N/A

Hao Yu, Kuang Zhang, Qun Wu (Harbin Institute of Technology, China, Mainland)

16:30 - 16:50

Electromagnetic Structures with Higher Symmetries **(Invited).....318**

Oscar Quevedo-Teruel (KTH Royal Institute of Technology, Sweden)

16:50 - 17:10

A Novel Metamaterial with Large Microwave Absorption and Sound
Insulation **(Invited).....321**

Cheng Zhang, Qiang Cheng (Southeast University, China, Mainland)

17:10 - 17:30

Macroscopic Doping in Epsilon-near-zero Platforms **(Invited).....N/A**

Yue Li (Tsinghua University, China, Mainland)

17:30 - 17:50

Novel Multi-Functional and High-Performance Metasurface Antennas and
Arrays **(Invited).....N/A**

Wanchen Yang, Wenquan Che, Si Chen, Lizheng Gu, Qian Meng (Nanjing
University of Science and Technology, China, Mainland)

Date / Time: 2018-03-07 AM / 09:40 - 11:20

Venue: Room O

ORAL Session: WA2

Special Sessions: Beamforming, multi-beam, and MIMO technologies for base stations – Organizers: Wei Hong and Kwai-Man Luk

Session Chairs: Wei Hong (Southeast University, China, Mainland) and Kwai-Man Luk (City University of Hong Kong)

09:40 - 10:00

“5G Millimeter Wave Full Digital Multibeam Arrays: Challenge and Opportunities” **(Invited).....N/A**

Wei Hong (Southeast University, China, Mainland)

10:00 - 10:20

MIMO-OTA: from 4G Terminal Testing to 5G MmWave Base Station Testing **(Invited).....N/A**

Xiaoming Chen (Xi'an Jiaotong University, China, Mainland)

10:20 - 10:40

An low-profile 4-multibeam antenna radiating parallel to ground plane **(Invited).....324**

Takeshi Fukusako, Nobuhiro Imaizumi, Ryuji Kuse (Kumamoto University, Japan)

10:40 - 11:00

Arbitrary Beamforming with a Discretized Huygens' Metasurface **(Invited).....N/A**

Alex Wong (City University of HongKong, HongKong)

11:00 - 11:20

Millimeter-Wave Parallel-Plate Cylindrical Dielectric Lens Multi-Beam Array Antenna for Point-to-Multipoint Communication **(Invited).....326**

Yu Jian Cheng, Ze A (University of Electronic Science and Technology of China, China, Mainland)

Date / Time: 2018-03-07 PM / 13:30 - 15:30

Venue: Room O

ORAL Session: WP1

Special Sessions: Antennas for portable devices (RFID, sensors, handset, watches, ...) – Organizers: Wonbin Hong and Zhipeng Wu
Session Chairs: Wonbin Hong (Pohang University of Science and Technology, South Korea) and Zhipeng Wu (University of Manchester, United Kingdom)

13:30 - 13:50

Design of Frequency Tunable Antennas for Mobile Devices **(Invited).....328**
Jussi Rahola (Optenni Ltd, Finland)

13:50 - 14:10

Radiation Resistance Enhancement Techniques for Metallic Smartwatch Antennas and Coils **(Invited).....N/A**
Wonbin Hong, Yoon-geon Kim, Seungtae Ko (Pohang University of Science and Technology, South Korea)

14:10 - 14:30

Overview of Antenna Designs and Considerations in 5G Cellular Phones **(Invited).....331**
Huan-Chu Huang (Vivo, Taiwan)

14:30 - 14:50

Graphene-based Antennas for Mobile Phone Application **(Invited).....N/A**
Rongguo Song, Daping He, (Wuhan University of Technology, China, Mainland), Zhi Peng Wu (University of Manchester, United Kingdom)

14:50 - 15:10

A Lensing Cover of the Smart Phone for 5G Antennas **(Invited).....N/A**
Heejun Park, Changhyeong Lee, Abdul Rehman, Muhammad SalmanKhattak, Sungtek Kahng (Incheon National University, South Korea)

15:10 - 15:30

Slot-Based Connected Antenna Arrays for 5G Mobile Terminals **(Invited).....335**
Mohammad S.Sharawi, Muhammad Ikram (KFUPM, Saudi Arabia)