



# IEEE 7<sup>th</sup> Asia-Pacific Conference on Antennas and Propagation

5 - 8 August 2018, Auckland, New Zealand  
([www.apcap2018.org](http://www.apcap2018.org))

# Call for Papers

The IEEE 7<sup>th</sup> Asia-Pacific Conference on Antennas and Propagation (APCAP) will be held on 5 - 8 August 2018 in Auckland, New Zealand.

The IEEE Asia-Pacific Conference on Antennas and Propagation is an international forum for the exchange of information on the progress and recent advancements in the research and development of innovative antenna technology and radio wave propagation.

The APCAP has been successfully inaugurated in Singapore in 2012 and held in Chiangmai in 2013, Harbin in 2014, Bali Island in 2015, Kaohsiung in 2016, and Xi'an in 2017.

APCAP 2018 will offer a rich scientific program of the highest quality with the keynote and invited speakers from all over the world and provide a broad forum of exchange for both academia and industry alike, with the aim of fostering the collaboration between them.

The conference will cover a wide range of topics related to antenna technology, wave propagation, and electromagnetic theory. Prospective authors are invited to submit original contributions on their latest research findings and technology applications.

Proposals for special sessions and short courses are invited and welcome. Industrial, academic, book exhibits, and sponsorship are also welcome.

**All accepted papers will be E. I. indexed and included in IEEE Xplore.**

#### Important Dates:

Proposals for special sessions and short courses	<b>26 February 2018</b>
Preliminary paper submission	<b>30 April 2018</b>
Notification of acceptance	<b>1 June 2018</b>
Final paper submission	<b>25 June 2018</b>

#### Organizing Committee

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## Topics of Interest

### Antennas

- Analysis, design, and development of various antennas
- Design of wide-band antennas and small antennas
- Empirical, theoretical, and computational models of antennas and arrays
- Material properties and their applications in antennas
- Reconfigurable and tunable antennas, optical and nano antennas
- Antenna arrays and MIMO systems
- Signal processing for antennas

### Wave Propagation

- Theoretical and computational methods of predicting wave propagation and sensing
- Characterization of propagation channels
- Applications in wireless communications, radar, and imaging systems
- Multiple antenna systems for spatial, polarization, pattern, and other diversity applications

### Measurements

- Measurement, specification, and standards of electrical quantities
- Measurement techniques for antennas, electromagnetic radiation, propagation, and scattering
- Display and visualization of electromagnetic fields and currents
- Near-field and compact-range measurements and novel measurement techniques
- Design of microwave absorbers and material characterization

### Electromagnetics

- Fundamental and advanced theory, analytical and numerical solutions
- Radiation, scattering, radar cross section, propagation, and interaction with all media
- Inverse scattering and target identification
- Novel electromagnetic and artificial materials
- Computational electromagnetics, fast algorithms, and CAD packages

### Microwaves, Millimeter Waves, and THz

- Solid state circuits, low-noise circuits, and high-power circuits, monolithic integrated circuits passive circuits, packaging, interconnects, MCMs, and MEMS
- Ferrite and SAW components, superconducting components and technology
- Microwave-Optical design, high speed digital circuits and SI, sub-millimeter wave techniques
- THz technology, measurement, and imaging

### EMC & EMI

- EMC and EMI modeling, EMC test methods in industry, environment, near-field for FF problem solving, near-field probes, and functional safety NF scanning for PCB characterization

and many other relevant topics....

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## Paper Submission

Authors are requested to submit a preliminary paper of **TWO** pages (IEEE double-column format) in length, including title, author's affiliation, abstract, figures, and references.

The submission must be in electronic (PDF) format. A paper template is available on the conference website. Hardcopy submissions will not be accepted.

## Exhibitions

Technical exhibitions on RF antennas, microwave components and devices, materials, measurement equipment and instrumentation, and software will be an accompanying event of the Asia-Pacific Conference on Antennas and Propagation.

