

Antenna-Enabled Systems: An Inter-Society Perspective

Abstract

Antennas have found applications, beyond telecommunications, in enabling electronics through sensing and energy harvesting. To fully leverage these opportunities, such systems require inter-disciplinary expertise ranging from microwave technologies, circuits & systems, to AI and machine learning.

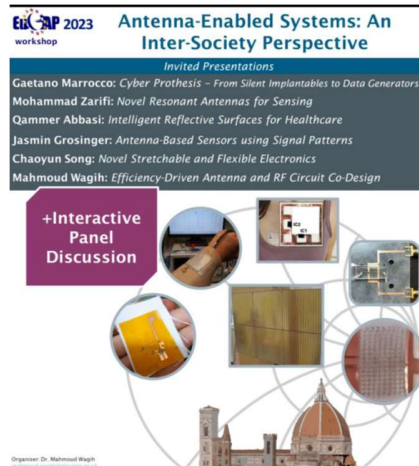
This workshop will introduce emerging, such as surface engineering, and well-established, such as RFID and RF power transfer, antenna-enabled technologies highlighting the inter-disciplinary applications with a focus on healthcare and industrial applications. In addition to state-of-the-art research insights, the speakers will share expertise ranging from commercializing antenna-based innovations to communicating AP research to audiences beyond the AP community.

Workshop outline:

The workshop encompasses overview presentations (25 minutes + 5 minutes discussion) on a novel research area enabled by advances in AP. All speakers are distinguished and/or award-winning speakers with complementary research to show the breadth of antenna-enabled systems. An interactive panel discussion will then take place and will be moderated by the proposer. Interactive inter-society panels are a key element in other flagship conferences (IMS, EuMW), and usually attract a very wide audience.

The invited presentations cover a range of healthcare, commercial and sustainability-driven applications around antennas. We will conclude with a panel to allow a two-way discussion with the audience.

- We encourage you to provide a graphical abstract: enclose a high resolution picture relevant to the workshop content (it is a responsibility of the proposers that the picture can be published on EuCAP webpage without IP violation).





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(EuCAP)
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A high-resolution (vector) version is attached in the email; all photos are from the speakers' own work/open non-attribute photos.
An updated version can be provided if the workshop is accepted for the website.

key speakers

- Gaetano Marrocco is a pioneer of UHF RFID systems and has a spin-out RADIO6ENSE commercializing RFID sensors.
- Qammer Abbasi chairs the IEEE AP-S Young Ambassadors Programme and has over 550 papers.
- Mohammad Zarifi is a Senior Member of the IEEE SSC and CAS societies, and has over 100 papers on microwave sensors
- Jasmin Grosinger is a Distinguished Microwave Lecturer and Associate Prof. of antenna/RF systems
- Chaoyun Song is a leader in RF energy harvesting and has inter-disciplinary materials/antennas research
- Mahmoud Wagih received the EurAAP's Best PhD in AP Award and has >70 AP-related publications.