

9 Sept

Cupos limitados

9:00-12:30 Chilean time (UTC-3)

Workshop

The symbiosis of machine learning and next-generation mobile networks: academic and industrial perspectives



09:00 am - 10:00 am
Start Thinking about AI and ML in 6G
Dr. Tony Q.S. Quek
Singapore University of Technology and Design



10:00 am - 11:00 am
5G; standardization perspective
Dr. Felipe Arraño Scharager
Ericsson

11:00 am - 11:30 am
BREAK

11:30 am - 12:30 am
Discussion panel
Modera: Dr. Sandra Céspedes y Dr. Jorge Silva, Investigadores AC3E y Prof. Asociados, Dept. Ingeniería Eléctrica, FCFM, U. Chile

Las presentaciones serán en inglés

Patrocina



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09:00 am - 10:00 am

Start Thinking about AI and ML in 6G

Dr. Tony Q.S. Quek

Singapore University of Technology and Design

With 5G cellular technologies now beginning to be deployed around the world, the research community has embarked on the pathway to define the sixth generation (6G) wireless system to be deployed in the year 2030. The market demands of 2030 and beyond will likely introduce new applications, with more stringent requirements (in terms of ultra-high reliability, capacity, energy efficiency, and low latency). At the heart of this technological revolution, it is clear that we will need to have artificial intelligence over a massively scalable, ultra-high capacity, ultra-low latency, and dynamic new network infrastructure in 6G. In this talk, we will share about 5G evolution, our vision about 6G, and how AI will play a role in 6G. In addition, we will also share Singapore's Future Communications R&D Programme (FCP) that has been launched in 2021.

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10:00 am - 11:00 am

5G; standardization perspective

Dr. Felipe Arraño Scharager

Ericsson

With the rollout of 5G networks across the globe, consumers and enterprises are already experiencing what this new generation of mobile networks unlocks. Whether it is by making up for the absence of fiber optic with Fixed Wireless Access solutions, by leveraging ultra-reliable low latency features for mission-critical communications, or by deploying 5G private networks to fulfill the demand for unique business-critical applications. 5G is not just another "G" and backstage 5G specification is still evolving. In this talk, we will focus on 5G New Radio - or 5G 'NR' for short. That is: 5G Radio Access Networks (RANs) and its standardization in 3GPP. We will walk through 5G Releases and discuss the official status of AI/ML's ongoing work within this standardization body.

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