

國立陽明交通大學電信工程研究所

系統組論文研討

TOWARDS SUSTAINABLE 6G

主講人：聯發科技 資深工程師 楊干陞

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Abstract

Mobile communication — fueled by continuous technology innovation over several decades — is anchoring ever deeper into the heart of our society. It can contribute to United Nations Sustainable Development Goals (SDG) by offering pervasive connectivity to improve human society efficiency in an increasingly sustainable manner. Because carbon emissions is a major cause of global warming and climate change, it is crucial that, with the future expected data growth in mobile communications, services can also be provided in a sustainable manner, forging a path toward carbon neutrality. Therefore, the development of new technologies natively designed for carbon footprint reduction is a key objective. This talk will focus on a key direction for a sustainable 6G system design: carbon-awareness. Carbon-awareness could enable reducing and limiting the carbon footprint of the 6G system.

Biography

Dr. Chien-Sheng Yang (楊千陞) received his B.S. degree in Electrical and Computer Engineering from National Chiao Tung University (NCTU), Hsinchu, Taiwan, and his Ph.D. degree in Electrical and Computer Engineering from the University of Southern California (USC), Los Angeles, USA. He is currently a Senior Engineer at MediaTek Inc. His research interests include 6G, AI/ML, sustainable system design, and integrated communication/computing. He received the Studying Abroad Scholarship from the Ministry of Education, Taiwan, in 2020, and the Annenberg Graduate Fellowship in 2016. He was a finalist for the ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc) Best Paper Award in 2019.