
TCCN Newsletter Report

Presentation at IEEE GLOBECOM 2020

Introduction

- TCCN Newsletter is a bi-annual electronic platform dedicated to present and discuss some emerging topics related to TCCN areas of interest.
- Topics already covered (since December 2015):
 - Ultra-Reliable Low-Latency Communications (URLLC)
 - Massive Machine-Type Communications (mMTC)
 - Unmanned aerial vehicles (UAV)
 - Non-Orthogonal Multiple Access (NOMA)
 - mmWave Communications
 - Blockchain
 - Internet of Things
 - Artificial Intelligence
 - THz Communications
 - Quantum Communications
 - Reconfigurable Intelligent Surfaces

New Issue – January 2021

This new issue covers two areas that are of extreme importance for the scientific community.

- **Full-Duplex Communications**
- **Integrated Space/Aerial/Terrestrial Communications**

To be launched on January 2021- there is a pending position paper.

Full-Duplex Communications (Material Ready)

- Feature Editor: Prof. Himal A. Suraweera, University of Peradeniya, Sri Lanka
- Four Interviews by:
 - 1) Dr. Kenneth E. Kolodziej, MIT Lincoln Laboratory, USA
 - 2) Prof. Ioannis Krikidis, University of Cyprus, Cyprus
 - 3) Prof. Özgür Gürbüz, Sabanci University, Turkey
 - 4) Prof. Chan-Byoung Chae, Yonsei University, Korea
- Two Position Papers:
 - 1) Title: Self-Interference Cancellation in Full-Duplex Radios: Is Machine Learning a Panacea, by Alexios Balatsoukas-Stimming
 - 2) Title: Millimeter-Wave Full-Duplex MIMO Transceivers: Challenges and Opportunities, by Jeyanandh Paramesh, Susnata Mondal, and Ahmed Alkhateeb

Integrated Space/Aerial/Terrestrial Communication

- Feature Editor: Prof. Gaofeng Pan, King University of Science and Technology (KAUST), Saudi Arabia.
- Three Interviews by:
 - 1) Prof. Halim Yanikomeroglu, Carleton University, Canada
 - 2) Prof. Jianping An, Beijing Institute of Technology, China
 - 3) Prof. Mohamed-Slim Alouini, KAUST, Saudi Arabia
- One Position Paper (Pending):
 - 1) Title: To Be Received, by Halim Yanikomeroglu

*Any question or suggestion, please
contact the TCCN Newsletter Director,
Prof. Daniel Benevides da Costa
email: danielbcosta@ieee.org*