Communication Theory Symposium

SYMPOSIUM CHAIRS AND CO-CHAIRS:

Marco Chiani, University of Bologna, Italy, marco.chiani@unibo.it

Rui Dinis, FCT-UNL, Instituto de Telecomunicações, Portugal, rdinis@fct.unl.pt

Paschalis Sofotasios, Khalifa University, UAE & Tampere University, Finland, paschalis.sofotasios@ku.ac.ae

SCOPE AND MOTIVATION

The Communication Theory Symposium will focus on the fundamentals of communication systems, with emphasis on wireless and wireline communications. The symposium welcomes original and innovative research work in these general areas, focusing on the physical layer and its interactions with higher layers. High quality papers reporting on applications of communications theory from both industry and academia are encouraged.

TOPICS OF INTEREST

Adaptive Modulation and Coding

Channel Estimation and Synchronization

Coding Theory

Communication Theory Aspects of Ad Hoc and Sensor Networks

Communication Theory Aspects of Distributed and Edge Computing

Communication Theory Aspects of Networks and Cross-Layer Design

Detection and Estimation Theory

Distributed Coding and Processing

Diversity and Fading Counter measures

Feedback in Communication Systems

Fundamentals of Cache-Aided Communication

Fundamentals of Heterogeneous and Small-Cell Networks

Fundamentals of Low-Latency and Short-Packet Communications

Fundamentals of Massive Connectivity

Information Theory and Channel Capacity

Interference Management, Cancellation, Alignment, and Avoidance

Iterative Techniques, Detection, and Decoding

MIMO and Massive MIMO

Multiple Access, Radio Resource Management, and Scheduling

Network and Multiuser Information Theory

Orthogonal and Non-Orthogonal Multiple Access Techniques

Orthogonal Frequency Division Multiplexing (OFDM) and Multi-Carrier Systems

Physical Layer Security

Quantum Communications and Networks

Radio Resource Management and Scheduling

Random Access Theory and Techniques

Source Coding and Data Compression

Stochastic Geometry and its Application to System Analysis and Design

Theoretical Aspects of Blockchain Networks

Theoretical Aspects of Cognitive Radio

Theoretical Aspects of Cooperative Communications

Theoretical Aspects of Device-to-Device and Machine-to-Machine Communications

Theoretical Aspects of Fiber Optical and Free-Space Optical Communications

Theoretical Aspects of Machine Learning in Communications

Theoretical Aspects of Powerline and Underwater Communications

Theoretical Aspects of Simultaneous Wireless Information and Power Transfer

Ultra-Wideband, Millimeter Wave and Terahertz Communication Theory

Unmanned Aerial Vehicle (UAV) Communications

Wireless Communications Powered by Energy Harvesting

IMPORTANT DATES

Paper Submission: 15 April 2020

Notification: 25 July 2020

Camera Ready and Registration: 1 September 2020

SUBMISSION INSTRUCTION

All papers for technical symposia should be submitted via EDAS through the following link: https://edas.info/N27054