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Day 1 (Zoom Room 1)

Chair: Periklis Chatzimisios (International Hellenic University (Greece), Greece & University of New Mexico (USA), USA)

Thursday, December 16 8:00 - 8:45

S1: Resource Allocation and Management

Day 1 (Zoom Room 1)

Chair: Periklis Chatzimisios (International Hellenic University (Greece), Greece & University of New Mexico (USA), USA)

Reverse Spectrum Allocation for Spectrum Sharing between TN and NTN

HaoWei Lee (National Taiwan University, Taiwan); Kader Medles (MediaTek Inc., United Kingdom (Great Britain)); Vector Jie (MediaTek Inc., Shanghai, China); Debby Lin (MediaTek Inc., Taiwan); Xc Zhu (MediaTek, United Kingdom (Great Britain)); I-Kang Fu (MediaTek Inc., Taiwan); Hung-Yu Wei (National Taiwan University, Taiwan)
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Abraar S. Alhazmi, Taisir El-Gorashi, Sanaa Hamid Mohamed, Jaafar Elmirghani and Osama Zwaid Alsulami (University of Leeds, United Kingdom (Great Britain))
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Day 1 (Zoom Room 2)

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Sachin Deshpande (Sharp Laboratories of America, USA); Miska Hannuksela (Nokia Technologies, Finland)

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Chun-Tai Liu and JenYi Pan (National Chung Cheng University, Taiwan)

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Thisuri Umagiliya (University of Moratuwa, Sri Lanka); Shalitha Wijethilaka (University College Dublin, Ireland); Chamitha De Alwis (University of Sri Jayawardenepura, Sri Lanka); Pawani Porambage (University of Oulu, Finland); Madhusanka Liyanage (University College Dublin, Ireland & University of Oulu, Finland)

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P3: Panel - Advances in Standardization for IoT

Day 1 (Zoom Room 1)

Chair: Aggeliki Sgora (Ionian University, Greece)

Thursday, December 16 10:15 - 11:00

K5: Keynote Speech - Dorothy Stanley, Hewlett Packard, USA

IEEE 802.11 standards: Wi-Fi 6 and beyond

Day 1 (Zoom Room 1)

Chair: Periklis Chatzimisios (International Hellenic University (Greece), Greece & University of New Mexico (USA), USA)

Thursday, December 16 11:00 - 11:30

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S3: Internet of Things

Day 1 (Zoom Room 1)

Chair: Periklis Chatzimisios (International Hellenic University (Greece), Greece & University of New Mexico (USA), USA)

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Darius Saif and Ashraf Matrawy (Carleton University, Canada)

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Radwa Sultan (Manhattan College, USA); Ahmed Shamseldeen (CommScope, USA)

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Fabian Antonio Rincon Vija (IMT Atlantique & Renault Group, France); Samuel

Cregut (Renault Group, France); Georgios Z. Papadopoulos (IMT Atlantique, France);

Nicolas Montavont (Institut Mines Telecom / IMT Atlantique, France)

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Day 1 (Zoom Room 2)

Chair: Evgeny Khorov (IITP RAS, Russia)

Parabolic Reflector-Based Mode Multiplexing Architecture for Next Generation Wireless Backhaul Links

Peyman Neshastegaran (Huawei Technologies Co. LTD., Canada); Wen Yao Zhai (Huawei Technologies Canada Research Center, Canada); Ming Jian (Huawei Technologies Co. LTD., Canada)

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Ali Mokh (ESPCI Paris, PSL Research University, CNRS, Institut Langevin, France); Julien de Rosny (CNRS, ESPCI Paris, PSL Research University, France); George C. Alexandropoulos (University of Athens, Greece); Ramin Khayatzadeh (Huawei, France); Abdelwaheb Ourir (Institut Langevin ESPCI Paris CNRS, France); Mohamed Kamoun (Huawei France, France); Arnaud Tourin (Laboratoire Ondes et Acoustique (LOA), France); Mathias Fink (Institut Langevin, ESPCI Paris, France)

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Jordi Pérez-Romero (Universitat Politècnica de Catalunya (UPC), Spain); Oriol Sallent (Universitat Politècnica de Catalunya, Spain)

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Philippe Fabian (B-com, France); Georgios Z. Papadopoulos (IMT Atlantique, France); Patrick Savelli (B-com, France); Bernard A. Cousin (University of Rennes 1 & IRISA Research Laboratory, France)

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Nikolay Korolev (Moscow Institute of Physics and Technology & Huawei Moscow Research Center, Russia); Ilya Levitsky and Evgeny Khorov (IITP RAS, Russia)

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Chathura Sarathchandra and Sebastian Robitzsch (InterDigital Europe, United Kingdom (Great Britain)); Mona Ghassemian (InterDigital, United Kingdom (Great Britain)); Ulises Olvera-Hernandez (InterDigital Communications, United Kingdom (Great Britain))

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S5: URLLC and Automotive

Day 1 (Zoom Room 1)

Chair: Periklis Chatzimisios (International Hellenic University (Greece), Greece & University of New Mexico (USA), USA)

Wireless TSN with Multi-Radio Wi-Fi

Juan Fang (Intel Labs & Polytechnic Institute of New York University, USA); Susruth Sudhakaran, Dave A Cavalcanti, Carlos Cordeiro and Cheng Chen (Intel Corporation, USA)

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Andres Burbano-Abril (Universidad Nacional Autónoma de México, Mexico); Brian McCarthy (University College Cork, Ireland); Miguel Lopez-Guerrero (Universidad Autonoma Metropolitana, Mexico); Victor Rangel (National University of Mexico, Mexico); Aisling O'Driscoll (University College Cork, Ireland)

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Ryan Mercer (University of California, Riverside, USA); Seyhan Ucar (Toyota Motor North America R&D, InfoTech Labs, USA); Eamonn Keogh (University of California, Riverside, USA)

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Raashid Ansari, Jean-Philippe Monteuis, Jonathan Petit and Cong Chen (Qualcomm, USA)

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S6: 5G Softwarization and Network Slicing

Day 1 (Zoom Room 2)

Chair: Aggeliki Sgora (Ionian University, Greece)

Latent Space Transformers for Generalizing Deep Networks

Hamed Farkhari (ISCTE & PDM&FC, Portugal); Joseanne Cristina Ocroch Viana (Lisbon University Institute, Portugal); Nidhi (Aarhus University, Denmark); Luís Miguel Campos (PDM&FC, Portugal); Pedro Sebastião (ISCTE-IUL, Portugal); Albena Mihovska and Purnima Lala Mehta (Aarhus University, Denmark); Luis Bernardo (Faculdade de Ciências e Tecnologia - Universidade Nova de Lisboa & Instituto de Telecomunicações, Portugal)

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Evangelos Thomatos and Aggeliki Sgora (Ionian University, Greece); Periklis Chatzimisios (International Hellenic University (Greece) and University of New Mexico (USA))

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Bahram Khan (Instituto de Telecomunicações, Portugal & Universidade da Beira Interior, Portugal); Nidhi, Albena Mihovska and Ramjee Prasad (Aarhus University, Denmark); Fernando J. Velez (University of Beira Interior & Instituto de Telecomunicações, Portugal)

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Seppo Hätönen and Ibbad Hafeez (University of Helsinki, Finland); Julien Mineraud (Moprim, Finland); Ashwin Rao and Sasu Tarkoma (University of Helsinki, Finland)

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Open discussion and Closing Session

Day 1 (Zoom Room 1)

Chair: Periklis Chatzimisios (International Hellenic University (Greece), Greece & University of New Mexico (USA), USA)

Friday, December 17

Friday, December 17 7:00 - 8:00

T1: Tutorial 1 - Tuncer Baykas, IEEE Standards Coordinator in Region 8

Training on Research Exploitation and Presentation at IEEE standardization meetings

[Day 2 \(Zoom Room 1\)](#)

T2: Tutorial 2 - Evgeny Khorov, Institute for Information Transmission Problems of the Russian Academy of Sciences

A very brief introduction to Wi-Fi 7

[Day 2 \(Zoom Room 2\)](#)

Friday, December 17 8:00 - 8:45

K6: Keynote Speech - Andreas Mueller, Bosch GmbH, Germany

On the way to Industrial 5G - Are we all set?

[Day 2 \(Zoom Room 1\)](#)

Chair: Periklis Chatzimisios (International Hellenic University (Greece), Greece & University of New Mexico (USA), USA)

Friday, December 17 8:45 - 9:00

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P4: Standards for Vertical Industries

[Day 2 \(Zoom Room 1\)](#)

Chair: Adam Drobot (OpenTechWorks, Inc, USA)

Friday, December 17 10:15 - 11:00

K7: Keynote Speech - Wanshi Chen, Qualcomm, USA

5G NR in 3GPP RAN: Current Status and Future Perspectives

[Day 2 \(Zoom Room 1\)](#)

Chair: Periklis Chatzimisios (International Hellenic University (Greece), Greece & University of New Mexico (USA), USA)

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P5: Panel - Standardization for UAVs and Drones

Day 2 (Zoom Room 1)

Chair: Kameswara Rao Namuduri (University of North Texas, USA)

Friday, December 17 13:00 - 14:00

S7: 5G and Beyond Communications (#2)

Day 2 (Zoom Room 1)

Chair: Periklis Chatzimisios (International Hellenic University (Greece), Greece & University of New Mexico (USA), USA)

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Alireza Hosseini, Danish Sattar and Ashraf Matrawy (Carleton University, Canada)
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Link-Layer Software-Defined Addressing using Block Address Registration and Claiming (BARC)

Roger B. Marks (EthAirNet Associates, USA)
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Jie Ding and Jinho Choi (Deakin University, Australia)
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S8: Access Network and Edge/Fog Computing for 5G

Day 2 (Zoom Room 2)

Chair: Dimitris Ampeliotis (Ionian University & University of Patras, Greece)

Time-Energy-Constrained Closed-Loop FBL Communication for Dependable MEC

Bin Han (Technische Universität Kaiserslautern, Germany); Yao Zhu and Anke Schmeink (RWTH Aachen University, Germany); Hans D. Schotten (University of Kaiserslautern, Germany)

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Victor Cionca (Cork Institute of Technology & Nimbus Centre, Ireland); Hemanth Pannem, Akshatha Sathyanarayan, Archit Baweja, Ki Suh Lee and Sacheth Hegde (VMware Inc, USA); Donna O'Shea (Cork Institute of Technology, Ireland)

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Energy Efficient Resource Allocation in Federated Fog Computing Networks

Abdullah M Alqahtani (University of Leeds, United Kingdom (Great Britain)); Barzan Yosuf (University of Leeds & Leeds, United Kingdom (Great Britain)); Sanaa Hamid Mohamed, Taisir El-Gorashi and Jaafar Elmirghani (University of Leeds, United Kingdom (Great Britain))

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Friday, December 17 14:00 - 14:15

Open discussion and Closing Session

Day 2 (Zoom Room 1)

Chair: Periklis Chatzimisios (International Hellenic University (Greece), Greece & University of New Mexico (USA), USA)