

IEEE Communication Theory Workshop

2–5 October 2022 // Marbella, Spain

Program

Conference schedule

Sunday, October 2 (Hotel Vincci Estrella del Mar (<https://goo.gl/maps/BUQTMGunAH6g3ifR9>))

19.30-21:00 Registration and Welcome reception

Monday, October 3 (Beach Club Estrella del Mar (<https://goo.gl/maps/THg3wKYAw5AzUiA9A>))

- 10:00–11:00 **Keynote 1** — Joaquín Torrecilla (Chief Technologist at Communications Solutions Group – Keysight)
 Title: “6G: Technology Revolutions Needed”
- 11:00 – 11:30 **Coffee break**
- 11:30 – 13:00 **Session 1** — Extreme bandwidth communications/Joint Communications & Sensing
 Organizer: **Josep Miquel Jornet**
Speaker 1: Joerg Widmer (IMDEA Networks Institute)
Title: “Practical low-overhead joint communication and sensing at mm-wave frequencies”
Speaker 2: Josep Miquel Jornet (Institute for the Wireless Internet of Things, Northeastern University)
Title: “The Role of the Terahertz Band in 6G and Beyond: Reality Check”
Speaker 3: Mohamed Slim Alouini (KAUST)
Title: “A light in digital darkness: Free space optics to connect the unconnected”
- 13:00 – 14:30 **Lunch & free time**
- 14:30 – 16:00 **Session 2** — Reconfigurable Surfaces
 Organizers: **Marco di Renzo & Arman Shojaeifard**
Speaker 1: Marco di Renzo (CNRS & Paris-Saclay University)
Title: “Reconfigurable Surfaces – Recent results on modeling and optimization”
Speaker 2: Dinh Thuy PHAN HUY (Orange Innovation)
Title: “Reconfigurable Intelligent Surfaces – A fixed and mobile network operator perspective”
Speaker 3: Arman Shojaeifard (Interdigital Communications, Inc.)
Title: “Reconfigurable Intelligent Surfaces – State of play from ETSI ISG RIS”

- 16:00 – 16:30** **Coffee break**
- 16:30 – 18:00** **Panel 1 — Resilient Connectivity from Space and Ground**
Organizer: Petar Popovski (Aalborg University)
Panelist 1: Michel Masselin (Thales Alenia Space)
Panelist 2: Beatriz Soret (University of Málaga)
Panelist 3: Riccardo de Gaudenzi (European Space Agency)
Panelist 4: Yunfei Chen (University of Warwick)
Panelist 5: Mohamed-Slim Alouini (KAUST)
- 18:00 – 19:30** **Poster sessions (regular posters) & cocktails**
Organizers: David Morales (University of Granada) and Mahnoosh Alizadeh (UCSB)
More information here (<https://ctw2022.ieee-ctw.org/posters/>)
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Tuesday, October 4 (Beach Club Estrella del Mar (<https://goo.gl/maps/THg3wKYAw5AzUiA9A>))

- 10:00–11:00** **Keynote 2 — Aylin Yener (Ohio State University)**
Title: “The Role of Wireless Communications in 6G Revolution: Connecting Human and Artificial Intelligence”
- 11:00 – 11:30** **Coffee break**
- 11:30 – 13:00** **Session 3 — Semantic communications**
Organizers: **Marios Kountouris & Sennur Ulukus**
Speaker 1: Sennur Ulukus (University of Maryland)
Title: “Timeliness as a semantic dimension: Gossiping for timeliness”
Speaker 2: Petar Popovski (Aalborg University)
Title: “Communication Models and Protocols: Syntax, Semantics, Pragmatics”
Speaker 3: Marios Kountouris (EURECOM)
Title: “How Semantic is Semantic Communication?”
- 13:00 – 15:00** **Lunch & Free time**

CTTC Early Achievement Awards Session**15:00 – 16:30****Speaker 1:** Yuanwei Liu (Queen Mary University), awardee 2021.*Title: “STAR: Simultaneous Transmission And Reflection for 360° Coverage by Intelligent Surfaces“***Speaker 2:** Junil Choi (Korea Advanced Institute of Science & Technology), awardee 2021.*Title: “Machine-learning for wireless communications: power of data preprocessing”***16:30 – 17:00****Coffee****17:00 – 18:30****Panel 2 — What should/would/will 6G be (and whatnot)?****Organizer:** Maïté Brandt-Pearce (University of Virginia)**Panelist 1:** Jeff Andrews (University of Texas at Austin)**Panelist 2:** Ana García Armada (Universidad Carlos III)**Panelist 3:** Gerhard P. Fettweis (TU Dresden)**Panelist 4:** Ender Ayanoglu (UC Irvine)**18:30 – 20:00****Free time****20:00****Gala dinner at Cortijo de Cortes (<http://www.cortijodecortes.com/>) (including shuttle bus transportation) — Departure from hotel lobby****Wednesday, October 5 (Beach Club Estrella del Mar (<https://goo.gl/maps/THg3wKYAw5AzUiA9A>))****10:00 – 11:00****Keynote 3 — Peiyong Zhu (Senior VP of Wireless Research — Huawei)****Title: “6G Integrated Sensing and Communications – From Theory to Practice”****11:00 – 11:30****Coffee break****11:30 – 13:00****Session 4 — Integrated space/air/ground communications***Organizer:* **Sofie Pollin****Speaker 1:** Helka-Liina Maattanen (Ericsson Research Finland)*Title: “3GPP support for Non-Terrestrial Networks”***Speaker 2:** Symeon Chatzinotas (University of Luxembourg)*Title: “Multilayered Satellite Systems: Perspective and Challenges”***Speaker 3:** Sofie Pollin (KU Leuven)*Title: “Evolution of Non-Terrestrial Networks from 5G to 6G”***13:00 – 13:10****Closing remarks**

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