

ICEST 2022 CONFERENCE

16-18 June, Ohrid, North Macedonia

The 57th International Scientific Conference on Information, Communication and Energy Systems and Technology ICEST 2022, which was held from 16 to 18 June in Ohrid, North Macedonia. The ICEST Conference gained its acronym as a successor of EIST Conference in 2002, when the Faculty of Electronics from Niš, Serbia, joined the Faculty of Communication and Communication Technologies from Sofia, Bulgaria and the Faculty of Technical Sciences from Bitola, North Macedonia, in organizing the series of Conferences.

The Conference covers a wide range of interesting topics from information, communications, energy systems, electronics, control systems, signal processing. As to the earlier ICEST conferences, authors from institutions all over the world submitted their papers. Program Committee consisted from professors from prestigious world universities like Berkley University of California, South Carolina University, Aalborg University Denmark, universities from Germany, Japan, Canada, Portugal, Italy, Spain, Turkey, Poland, Czech Republic, etc. As to the previous ICEST Conferences, we had papers and authors from institutions all over the world. This year we had 230 authors (and coauthors) from 16 countries with 92 scientific and application oriented papers for oral and poster presentations.



Opening session: Prof. Dr. Mitko Kostov

A plenary lecture about aspects of time and space in wireless connectivity beyond 5G and 6G was given by Petar Popovski, Department of Electronic Systems, Aalborg University, Denmark. This talk highlighted aspects of time and space as these two basic physical notions get intertwined with the digital wireless communication systems beyond-5G/6G. In terms of time, the talk presented the general concept of timing in wireless communication systems and networks and its relation to effective information generation, processing, transmission, and reconstruction at the senders and receivers. Starting from the focus on latency, a specific instance of timing being in the focus of 5G, the talk presented a statistical framework of timing requirements in wireless systems. The timing framework subsumes both latency and Age of Information (AoI) and applied to various communication models, such as consensus or distributed learning/inference. In terms of space, wireless environments evolve towards becoming intelligent and reconfigurable. The talk discussed the communication modeling aspects of reconfigurable wireless environments. Finally, leveraging the ambiguity of the term “space”, the talk provided a perspective on non-terrestrial/satellite networks and their role in future wireless connectivity.



A plenary lecture by Petar Popovski

All the participants took the opportunity to exchange their knowledge, experiences and ideas, and made contacts and established further collaboration.

A social program, rich in events, provided more relaxing atmosphere during the meetings among colleagues. The Conference dinner took place on 16 June at hotel Millennium where all participants enjoyed fine cuisine, good beverages and exclusive live music.



Sessions

The Conference organizers hope that all the attendees will remember this Conference as a successful one and that they will meet at the next ICEST conference in Niš, Serbia in 2023.

*Prof. Dr. Mitko Kostov
ICEST 2022 Conference Chairman*