

# CTRQ 2023

## Forward

The Sixteenth International Conference on Communication Theory, Reliability, and Quality of Service (CTRQ 2023), held between April 24<sup>th</sup> and April 28<sup>th</sup>, 2023, continued a series of events focusing on the achievements in communication theory with respect to reliability and quality of service.

The processing and transmission speed and increasing memory capacity might be a satisfactory solution on the resources needed to deliver ubiquitous services, under guaranteed reliability and satisfying the desired quality of service. Successful deployment of communication mechanisms guarantees decent network stability and offers reasonable control on the quality of service expected by the end users. Recent advances on communication speed, hybrid wired/wireless, network resiliency, delay-tolerant networks and protocols, signal processing and so forth asked for revisiting some aspects of the fundamentals in communication theory. Mainly network and system reliability and quality of service are those that affect the maintenance procedures, on the one hand, and user satisfaction on service delivery, on the other hand. Reliability assurance and guaranteed quality of services require particular mechanisms that deal with dynamics of system and network changes, as well as with changes in user profiles. The advent of content distribution, IPTV, video-on-demand and other similar services accelerate the demand for reliability and quality of service.

We take here the opportunity to warmly thank all the members of the CTRQ 2023 technical program committee, as well as all the reviewers. The creation of such a high-quality conference program would not have been possible without their involvement. We also kindly thank all the authors who dedicated much of their time and effort to contribute to CTRQ 2023. We truly believe that, thanks to all these efforts, the final conference program consisted of top-quality contributions. We also thank the members of the CTRQ 2023 organizing committee for their help in handling the logistics of this event.

We hope that CTRQ 2023 was a successful international forum for the exchange of ideas and results between academia and industry and for the promotion of progress in the areas of Communication Theory, Reliability, and Quality of Service.

### **CTRQ 2023 Chairs**

#### **CTRQ 2023 Steering Committee**

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