Title of the presentation: "Data processing and management: trends, challenges and opportunities, including in ITU-T standardization activities related to IoT and SC&C"

Abstract of the presentation:

This presentation will provide an overview of trends, challenges and opportunities of data processing and management, with particular focus on ITU-T standardization activities related to IoT and SC&C.

After a general introduction to data processing and management, and associated challenges and opportunities for networks and applications, the presentation will describe some key Big Data related studies progressed, respectively, in ITU-T SG13 (networks) and ITU-T SG20 (IoT and SC&C).

Then, in the context of ITU-T SG20 – a summary view of key areas of the standardization effort will be provided – the presentation will highlight the SG20-supervised work of the ITU-T Focus Group on "Data Processing and Management to support IoT and Smart Cities & Communities" (ITU-T FG-DPM). FG-DPM conducts studies - among others – on frameworks, technologies and platforms for data processing and management, including related security, privacy and trust aspects, and emerging technological trends such as blockchain, as well as it investigates the domain of data economy, commercialization and monetization.

Finally, in line with the growing interest in the enhancement of data processing and management capabilities with Artificial Intelligence/Machine Learning capabilities for their usage in networks and applications (including IoT and SC&C), some information will be provided about the recent establishment of the ITU-T Focus Group on "Machine Learning for Future Networks including 5G" (ITU-T FG-ML5G) and some new studies initiated within ITU-T SG20.