

Title: HiWi - Analyzing and Visualizing Semantic Communication Reliability in Challenging 5G and Future 6G Channels

Task Description:

You will review 3GPP standardization of 5G Quality of Service (QoS) requirements and feedback to help gain a good understanding and foundation of QoS Flows, QoS flow to data radio bearer mapping, and the current limits to user-equipment impact on QoS needs for semantic tasks. Further, you will help with the analysis of semantic communication reliability under challenging 5G and future 6G channels, involving the investigation of factors such as channel conditions (SINR, Latency, Jitter, bandwidth) on semantic communication effectiveness. Finally, you would help with visualizing results obtained from the analysis, in a visually informative and easily understandable manner.