

**Title:** "Channel modeling and emulation – industry perspective".

**Abstract:** The presentation aims to cover Keysight observations on radio channel topics and will share industry perspectives towards the future evolution of channel modeling and emulation. Keysight actively participates in global university collaborations and transforms theories into practical engineering solutions to enable our customer's success. Keysight has had a pole position in the industry since 2G to help customers innovate and implement transition between technology generations. The importance of accurate channel modeling and emulation has grown over the years, and it has become a de-facto approach to validate new wireless technologies. Digital twins and AI-accelerated solutions are impacting channel modeling as well, which will also be addressed in the presentation.

**Biography – Janne Kolu, Senior Director of Channel Emulation Solutions at Keysight Technologies**

Mr. Janne Kolu leads Keysight Channel Emulation business and product development. With over 25 years of experience, he has had leadership positions in multiple business domains including Product Planning, Product Management, Research & Development, and order fulfillment. Janne has extensive knowledge of radio channel modeling and emulation technologies for 4G, 5G, and most recently 6G. He has a Master of Science degree in Physics from the University of Oulu, Finland.