

## **PriMO-5G project: smart firefighting with immersive videos through 5G**

Ki Won Sung(ki.w.sung@gmail.com)

KTH Royal Institute of Technology

### **Abstract**

This presentation introduces PriMO-5G which is an EU-Korea collaboration project studying the use of 5G technologies and unmanned aerial vehicles (UAVs) or drones to enhance the safety and efficiency of firefighting operations. The talk will start by describing envisaged use cases of smart firefighting focusing on how the 5G communications with drones can help the firefighting. Inspired by the use cases, several research challenges will be identified that call for new solutions in 5G radios and cores for mission-critical services. Then, a discussion of a new framework for defining key performance indicators (KPIs) follows. Finally, ongoing and planned demonstrations of the technologies that the PriMO-5G develops will be briefed.

**Keywords:** *firefighting, 5G, unmanned aerial vehicles, immersive video, use case, key performance indicator, demonstration, PriMO-5G*

### **Biography**

Dr. Ki Won Sung (male) is a Docent researcher at KTH Royal Institute of Technology. He received the B.S. degree in industrial management, and M.S. and Ph.D. degrees in industrial engineering from Korea Advanced Institute of Science and Technology (KAIST), Korea in 1998, 2000, and 2005, respectively. He joined KTH in 2009. He participated in several European research projects and contributed to the development of 5G technologies.