

## **Wireless Network Intelligence @ the Edge.**

In just a few years, breakthroughs in machine learning (ML) and particularly deep learning have transformed every aspects of our lives from face recognition, medical diagnosis, and natural language processing. This progress has been fueled mainly by the availability of more data and more computing power. However, the current premise in classical ML is based on a single node in a centralized and remote data center with full access to a global dataset and a massive amount of storage and computing, sifting through this data for inference. Nevertheless the advent of a new breed of intelligent devices and high-stake applications ranging from drones to augmented/virtual reality applications and self-driving vehicles, makes cloud-based ML inadequate. This talk will present the vision of distributed edge intelligence for resource-constrained devices accompanied featuring key enablers, architectures, algorithms and some recent results