

Laboratory Name:

Turkcell 6GEN. Lab: Artificial Intelligence and 6G Laboratory

Company:

Turkcell İletişim Hizmetleri A.Ş.

Laboratory Manager:

Dr. Mustafa Karakoç

Laboratory Manager Short Biography:

Mustafa Karakoç is an experienced Access Network Capabilities Director with his 15+ years of demonstrated history of working in the wireless telecommunications industry. He completed his PhD at the year of 2007 at Kocaeli University. After joining Turkcell as a Radio Network Planning engineer, he took responsibility in different departments of the Access Network within Turkcell, and at the end of 2017, he had managerial experience in teams where he previously took professional roles. Mustafa Karakoç is also an advisory board member and deputy chair of Huawei User Group since 2018 and 2021, respectively.

Research Area:

- 6G technology
- Artificial intelligence
- Autonomous networks
- Application of next-generation technologies to vertical sectors.

As part of the 6GEN. Lab R&D activities, studies focus on the autonomous design of 6G networks with artificial intelligence and machine learning capabilities, and the integration of new-generation technologies with vertical sectors.

The aim is to perform scientific research on the design of AI-based 6G networks and the adaptation and application of these autonomous network capabilities to use-case scenarios in vertical sectors such as e-mobility, industry 4.0, energy, and public safety.