



Talk Information

Name: Yuemin Ding

Affiliation: University of Navarra

Address: Mikeletegi Pasealekua, 48, 20009 Donostia, Gipuzkoa, Spain

Email: yueminding@tecnun.es

Tel: +34-943219877#842792



Title of the talk: Real-time Communication and Applications in Smart Grid

Abstract of the talk:

The electric power system is one of the most important infrastructures for energy delivery. During the past decade, the electric power system has been evolving from a conventional centralized architecture to a distributed one, allowing electricity users to play vital roles in improving overall energy efficiency, system reliability, etc. Central to this transformation of the power system is the bidirectional real-time communication technologies based on Internet-of-Things (IoTs). IoTs are essential to emerging smart grid applications, such as user-side demand response, advanced metering infrastructure, etc. Meanwhile, the security issues of smart grid IoT have received significant concerns, especially after several unexpected events caused by malicious attacks. With this talk, the speaker will present the most recent theoretical research and practical demonstration systems of the group in related areas of real-time communication and applications in smart grid. The research challenges and future plans will also be highlighted.

Biography of the speaker:

Yuemin Ding (Senior Member, IEEE) received a doctoral degree in electronic systems engineering from the Department of Electronic Systems Engineering, Hanyang University, Ansan, South Korea, in 2014. He was an Associate Professor at the School of Computer Science and Engineering, Tianjin University of Technology, Tianjin, China, from 2015 to 2019. From 2017 to 2018, he did a research stay at the Department of Electrical Engineering and Computer Science, Queensland University of Technology, Brisbane, Australia. He was with the Department of Energy and Process Engineering for postdoctoral research at the Norwegian University of Science and Technology, Trondheim, Norway. Since 2021, he has been an Associate Professor at the Tecnun School of Engineering, University of Navarra, San Sebastián, Spain. He also serves as the Associate/Guest Editor for IEEE Tran. on Consumer Electronics, IEEE Selected Areas in Sensors, etc. and the Track Chairs of flagship conferences. In 2022, he was selected for the Gipuzkoa Fellowship and the Ramón y Cajal Fellowship in Spain. His research interests include the Internet-of-Things (IoT), industrial automation networks, and smart grid.