

# Intelligent Vulnerable Road Users

Carla Fabiana Chiasserini

*CNIT/Polytechnic Torino, IT*

## Abstract

One of the fundamental components that is missing in 5G, and that is advocated to be a key element of 6G, is the Intelligent Edge — a new paradigm aiming at optimally combining AI-based applications with the edge of the network infrastructure and with the mobile users under its coverage. This talk looks at vulnerable road users (VRUs), namely, pedestrians, bikes, e-kickscooters, and at the AI-based applications devoted to them, as essential elements of the Intelligent Edge, and highlights the challenges that need to be solved to make VRU mobility safe and efficient.

## Bio



Carla Fabiana Chiasserini is Full Professor at Politecnico di Torino, Italy, and a Research Associate with the Italian National Research Council (CNR). She was a Visiting Researcher at UC San Diego (1998-2003), and a Visiting Professor at Monash University (2012 and 2016). She is a Fellow of the IEEE. Her research interests include 5G-and-Beyond Networks, Mobile Edge Computing, Internet of Things (IoT), and Connected Vehicles. She published over 350 journal articles and referred conference papers. Currently, she serves as Editor-in-Chief of the Elsevier Computer Communications journal and as an Associate Editor of the IEEE/ACM Transactions on Networking. Carla has been involved in many national and International research projects, as a coordinator or a Lead PI, including the EU H2020 5G-Crosshaul, 5GTRANSFORMER, I-REACT, 5GROWTH projects. For more information, please refer to: <http://www.telematica.polito.it/public/faculty/carla-fabiana-chiasserini/>.