

Tutorial

“Design and validation of applications in vehicular networks”

Bertrand Ducourthial

UMR CNRS UTC Heudiasyc

Université de Technologie de Compiègne

In this tutorial, we introduce the vehicular networks research field. We begin by presenting the main motivations and applications of vehicular networks. We then discuss about research issues, current development and methodology for validating new results. Next, we focus on some applications, covering road safety, infrastructure management and services to passengers. We will have a look on their requirements in terms of protocols, architectures and distributed algorithms.