



Séminaire du CIRRELT Seminar

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LARGE-SCALE AUTONOMOUS VEHICLES SYSTEMS AND TRANSPORTATION MODELLING IMPLICATIONS

Abstract: Autonomous vehicles quickly became one of the most popular research topics in transportation in recent years. Several scientists proposed a vision in which shared, autonomous vehicles fleets would be used instead of privately owned cars and would serve the current transportation demand with an extremely reduced number of vehicles. However, the implications that such a dramatic change of paradigm would have on transportation planning itself, have been neglected almost entirely so far. Multi-modal simulation tools used for planning, have been typically adapted to accommodate autonomous vehicles travel, without considering all the potential consequences that the realization of such visions would have on the transportation system as a whole and thus, the adequacy of the tools. This talk, points at some simple but important limitations of such approaches and proposes ideas to develop new tools more adapted for a world in which autonomous shared vehicles would play a prominent role in the transportation system.

Bio: Francesco Ciari obtained his Master degree in Environmental engineering at the University of Florence, Italy, in 2003. He obtained his PhD in transportation planning in 2012 with a dissertation titled Sharing as a key to rethink urban mobility at the Swiss Federal Institute of Technology (ETH) in Zurich, where he worked as a senior researcher until 2017. Between 2017 and 2018, he joined Joanneum Research in Graz (Austria) as head of the Urban Living Lab research unit.

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Salle / Room 5441
Pavillon André-Aisenstadt
Université de Montréal

Ouvert à tous / Open to all

Organisateur / Organizer

Martin Trépanier

