



UNIVERSITÀ DEGLI STUDI
DI TRENTO

Dipartimento di Matematica



SEMINARI

Friday 27 March 2020 – at 3.00 p.m.

The event will take place online through the ZOOM platform.
To attend the event, use the following link and access codes:

<https://zoom.us/j/455516299?pwd=SUZ6aFVOc1NFWU5zTW9zMTB5L0R1UT09>

Meeting ID: 455 516 299

Password: 018744

Fabio Bagagiolo
Luciano Marzufero
(University of Trento)

An optimal visiting mean field game problem

Abstract:

A very large number of agents want to visit a finite number of sites avoiding queues and congested spots as more as possible. The problem is modeled as a mean field game problem where the population of agents is split, at every instant, into several populations labelled by the "string" of the already visited sites. From an analytical point of view, this is realized by a suitable system of Hamilton-Jacobi equations (or quasi-variational inequalities) and transport (conservation laws-like) equations. The seminar will possibly end with some difficulties on the analytical model that we have encountered (and not completely solved yet), but a first introductory part will try to explain the model and its analytical representation, in a possibly rather intuitive way.

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CONTATTI

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