

An Introduction to Viscosity Solutions for Hamilton–Jacobi Equations - Part 1

vendredi 16 janvier 2026 09:30 (1h 30m)

This mini-course provides an introduction to viscosity solutions, a weak notion of solution introduced by Crandall and Lions. This framework is particularly well suited for Hamilton–Jacobi equations, where classical solutions may fail to exist. We will focus on first-order Hamilton–Jacobi equations, presenting the main ideas, illustrating them with examples and applications such as traffic flow modeling and optimal control, and discussing the well-posedness of these equations.

Orateur: Mme GUERAND, Jessica (IMAG)