Department of
Business and Law

SPEAKER

Prof. Mohamed Ait Mansour

Professor of Mathematics
Department of Physics, Polydisciplinary Faculty of Safi
Cadi Ayyad University, Safi, Morocco

SEMINAR

Recent Stability Results of Time-Dependent Quasi-Variational Inequalities

ABSTRACT

In this talk, we consider quasi-variational inequalities depending on time at each moment beyond the presence of further external perturbing parameters. These considerations lead to time-dependent parametric quasi-variational inequalities, which we analyse from the stability viewpoint. We first discuss interesting links of our stability concept to several mathematical tools from set-valued and variational analysis to fixed point theory. Then, we present an abstract quantitative stability result by establishing sharp estimates of solutions to time-dependent quasi-variational inequality problems under perturbation. Our key idea mixes stable fixed points of set-valued maps and strongly monotone variational inequalities. The suggested assumptions arrange an efficient combination with Lim's type stability properties on the underlying fixed points. In the second step of the talk, our main stability result is discussed in the context of two applications: parametric market equilibrium problems and elastic traffic network problems.

WHEN	Friday, July 3, 2026 — 10:00 a.m.
WHERE	University of Milano-Bicocca Department of Business and Law Via Bicocca degli Arcimboldi 8, 20126 Milano Building U7, 4th Floor, Room 4057 Webex link: https://unimib.webex.com/meet/mauro.passacantando