





ATENEO



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PDE systems in mean-field game theory and applications

Abstract: The mean-field theory of Nash equilibria, developed by J.-M. Lasry and P.-L. Lions since 2006, leads to the analysis of systems of PDEs (Partial differential equations) where Hamilton-Jacobi and Fokker-Planck equations are coupled; the individual decisions are intimately connected with the distribution function describing mass evolution. I will present the background of this theory and the main challenges in terms of PDEs, then I will focus on specific applications to economic growth models based on knowledge exchange and diffusion.

Sala de Grados I, Facultad de Ciencias Jueves 20 de Febrero de 2025 (17:00)

