



UNIVERSITÀ CATTOLICA
del Sacro Cuore

**Dipartimento di Matematica per le Scienze economiche,
finanziarie ed attuariali**

Nell'ambito delle iniziative seminariali del Dipartimento, rivolte alla
ricerca ed alla didattica avanzata,

**giovedì 26 giugno 2025, alle ore 11.00
presso l'Aula 200 – via Necchi 9**

si svolgerà il **SEMINARIO**

« PATHOLOGICAL LIPSCHITZ FUNCTIONS »

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Abstract: We focus on the difference between differentiable versus strict differentiable locally Lipschitz functions from the view point of nonsmooth analysis: while in the latter class, all limiting Jacobians are singletons, we show that there exists a differentiable locally Lipschitz function whose limiting Jacobian represents all nonempty compact connected subsets of matrices. In the particular case of real-valued functions, we obtain differentiable functions with surjective limiting and Clarke subdifferentials.

Based on the works:

- *All convex bodies are in the subdifferential of some everywhere differentiable locally Lipschitz function*, PLMS 2024 (with R. Deville and S. Tapia)
- *Differentiable functions with surjective Clarke Jacobians*, Preprint 2025 (with S. Tapia)

Per partecipare da remoto [CLICCA QUI](#)

Tutti gli interessati sono invitati a partecipare.