

Optimization and Equilibrium Seminar

Expositor: Sebastián Tapia-García (TU Wien, Austria)

Título de la charla: All convex bodies in the subdifferential of a locally Lipschitz function.

Abstract: We construct a differentiable locally Lipschitz function f in $\mathbb{R}^d$ with the following property: for every convex body K of $\mathbb{R}^d$, there exists x in $\mathbb{R}^d$ such that the subdifferential of f at x coincides with K (in the sense of limiting or Clarke).

We show that our technique can be further refined to recover all compact connected subsets with nonempty interior in the image of the limiting subdifferential of a locally Lipschitz function. We end this talk with a brief discussion about how large the set of functions with the aforementioned property is.

This is a joint work with A. Daniilidis (TU Wien) and R. Deville (U. Bordeaux).

Link de

zoom: <https://reuna.zoom.us/j/87552449678?pwd=LGNFa0oD0s1szLgWhzsYDQWpbdjYVa.1>

Miércoles 26 de junio de 2024, a las 16:15 Hrs.

Sala de Seminarios John Von Neumann del Centro de Modelamiento Matemático (Beauchef 851, Edificio Norte, Piso 7).