Optimization and Machine Learning Seminar

Lyapunov Stability of the Subgradient Method with Constant Step Size

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Abstract
We consider the subgradient method with constant step size for minimizing locally Lipschitz semi-algebraic functions. In order to analyze the behavior of its iterates in the vicinity of a local minimum, we introduce a notion of discrete Lyapunov stability and propose necessary and sufficient conditions for stability.

Date: December 6, 2022 (Tuesday)
Time: 4:30 - 5:30pm (Hong Kong Time)
Venue: Room 210, Run Run Shaw Bldg., HKU and ZOOM: https://hku.zoom.us/j/99815186949
Password: 422684

All are welcome