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Challenges and Trends in Multi-Parameter Persistence

Jeudi 14 octobre 2021
17h00-18h00
Université de Paris,
Bâtiment Sophie Germain,
salle 1016 (1er étage)

Persistence theory is the mathematical foundation of the field of topological data analysis, one of the emerging trends within the data sciences. While the one-parameter instance of the theory is by now well established, the multi-parameter instance is still under development and poses some significant challenges. After an overview of one-parameter persistence, this talk will introduce multi-parameter persistence and review some of the approaches adopted so far for its development.