

Chilean Probability Seminar

Orador: Sebastián Zaninovich (Universidad de Buenos Aires).

Título: Asymptotic behavior of Fermat distances in the presence of noise.

Resumen: Fermat distances are metrics designed for datasets supported on a manifold. These distances are given by geodesics in the weighted graph determined by the points in which long jumps are penalized. When the points are given by a Poisson Point Process in Euclidean spaces, this model coincides with Euclidean First Passage Percolation (Howard-Newman 1997). In both contexts it is natural to consider perturbations of the model. We consider such perturbations and prove that if the noise converges to zero, then the noisy microscopic Fermat distance converges to the non-noisy macroscopic Fermat distance. In the Euclidean case, this corresponds to a continuity result for the time constant.

El enlace para conectarse al seminario es:

Unirse a la reunión Zoom

<https://reuna.zoom.us/j/84521834914?pwd=OTZ6Y0NWM3pYTGtTbEt3c0luTG96UT09>

ID de reunión: 845 2183 4914

Código de acceso: 997973

Modalidad híbrida en la sala Multimedia CMM, Beauchef 851, Torre Norte Piso 6.
Miércoles 25 de septiembre 2024 a las 16:15 hrs.

