



Institute colloquium

# **[Canceled] Voronoi diagrams and manifold learning**

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**Host: Herbert Edelsbrunner**

Voronoi diagrams can be observed in nature from the microscopic to the astronomical scale. They have been described by Descartes, reinvented many times, and are now used in almost all disciplines, including physics, biology, medicine, human sciences, and even in art. The talk will emphasize the algorithmic side of the subject and focus on the application of Voronoi diagrams and Delaunay triangulations, their dual structures, to represent, discretize and learn the geometry of curved spaces of possibly high dimensions. These questions are ubiquitous in science and have become an essential part of scientific computing and data analysis.

**Monday, April 20, 2020 04:00pm - 05:00pm**

IST Austria Campus Raiffeisen Lecture Hall, Central Building



This invitation is valid as a ticket for the IST Shuttle from and to Heiligenstadt Station. Please find a schedule of the IST Shuttle on our webpage: <https://ist.ac.at/en/campus/how-to-get-here/> The IST Shuttle bus is marked IST Shuttle (#142) and has the Institute Logo printed on the side.