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Generalized Voronoi diagrams. Introduction. Voronoi

diagrams of points in the Euclidean plane were first defined

one and a half centuries ago by Lejeune Dirichlet when

investigating quadratic forms. 1 Besides the basic Voronoi

diagrams of points, various generalizations have been of

interest in the field computational geometry: 2.

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In mathematics, a Voronoi diagram is a partition of a plane into regions close to each of a given set of objects. In the simplest case, these objects are just finitely many points in the plane. For each seed there is a corresponding region consisting of all points of the plane closer to that seed than to any other. These regions are called Voronoi cells. The Voronoi diagram of a set of points is dual to its Delaunay triangulation. The Voronoi diagram is named after Georgy Voronoy, and is also ca

~~Voronoi diagram - Wikipedia~~

It represents the collection of state-of-the art research methods merging the bridges between two areas: geometric computing through Voronoi diagrams and intelligent computation techniques, pushing the limits of current knowledge in the area, improving on previous solutions, merging sciences together, and inventing new ways of approaching difficult applied problems.

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Voronoi diagrams are fundamental data structures that have been extensively studied in Computational Geometry. A Voronoi diagram can be defined as the minimization diagram of a finite set of continuous functions.

~~Generalized Voronoi Diagrams and Applications~~

In this section, we briefly give an overview of generalized Voronoi diagrams, our approach for computing discrete approximations of Voronoi diagrams, and polygon rasterization hardware.

3.1 Generalized Voronoi Diagrams
Let us denote the set of input primitives as A_1, A_2, \dots, A_k . For any point p in the space, let (p, A_i) denote the Euclidean distance

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Robust Geometry Estimation using the Generalized Voronoi Covariance Measurey Louis Cuel^{1,2}, Jacques-Olivier Lachaud², Quentin Merigot^{1,3}, and Boris Thibert²

¹Laboratoire Jean Kuntzman, Université Grenoble-Alpes, France ²Laboratoire de Mathématiques (LAMA), Université de Savoie, France ³CNRS November 4, 2015 Abstract The Voronoi Covariance Measure of a compact set K of \mathbb{R}^d is a tensor-valued ...

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Generalized Voronoi Diagram. Given a set of disjoint path-connected regions $\{P_i\}_{i=1}^L$ for $i = 1, 2, \dots, L$ with $P_i \cap P_j = \emptyset$ for $i \neq j$, define the generalized Voronoi diagram (GVD) as $V(P_1, P_2, \dots, P_L)$ corresponding to each P_i :

~~Evolving generalized Voronoi diagrams for accurate~~

Robust Geometry Estimation using the Generalized Voronoi Covariance Measure Louis Cuel^{1,2}, Jacques-Olivier Lachaud², Quentin Merigot^{1,3}, and Boris Thibert² ¹Laboratoire Jean Kuntzman, Universit e Grenoble-Alpes, France ²Laboratoire de Math ematiques (LAMA), Universit e de Savoie, France ³CNRS May 9, 2019 Abstract The Voronoi Covariance Measure of a compact set K of \mathbb{R}^d is a tensor-valued measure

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The year 2008 is a memorial year for Georgiy Voronoi (1868-1908), with a number of events in the scientific community commemorating his tremendous contribution to the area of mathematics, especially number theory, through conferences and scientific gatherings in his honor. A notable event taking place in September 2008 a joint conference: the 5th Annual International Symposium on Voronoi ...

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The partition of space into $V(A_1)$, $V(A_2)$, ..., $V(A_k)$ is called the generalized Voronoi diagram. The (ordinary) Voronoi diagram corresponds to the case when each A_i is an individual point. The boundaries of the regions $V(A_i)$ are called Voronoi boundaries.

~~Fast Computation of Generalized Voronoi Diagrams Using ...~~
"Approximating the Generalized Voronoi Diagram of Closely Spaced Objects." Presented at Eurographics 2015.

~~The Generalized Voronoi Diagram of Closely Spaced Objects~~
A generalized Voronoi diagram of n points, four line segments, four circular arcs and one circle. The jump flooding algorithm (JFA) is an efficient GPU-based algorithm for Voronoi diagram computation. It is the first known GPU implementation of Delaunay triangulation for 2D domains.

~~Generalized Voronoi Diagram Computation on GPU~~
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