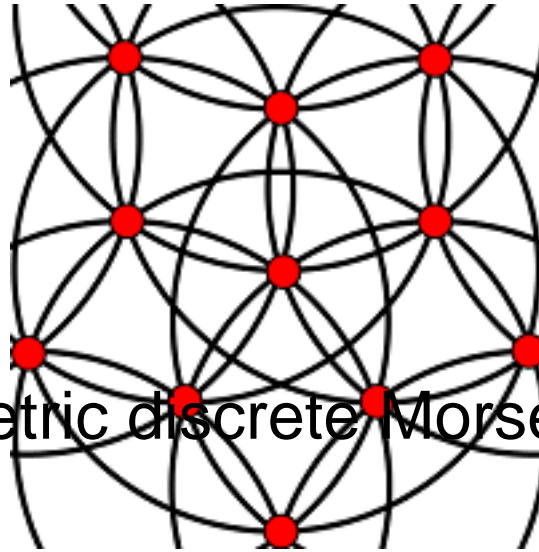


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Contribution ID : 97

Parametric discrete Morse theory

Content :

Discrete Morse theory introduced by Robin Forman in 1998 is a combinatorial version of smooth Morse theory. It has proven to be a useful tool for computing homology of cell complexes and persistent homology of filtered cell complexes, and is also widely used in topological data analysis. We will present a parametric version of discrete Morse theory and an algorithm based on it for tracking critical features in data.

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