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The domains of discrete geometry and computer imagery are closely related. Discrete geometry provides both theoretical and algorithmic models for the processing, analysis and synthesis of images; in return computer imagery, in its variety of applications, constitutes a remarkable experimental field and is a source of challenging problems.

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This book constitutes the refereed proceedings of the 19th IAPR International Conference on Discrete Geometry for Computer Imagery, DGCI 2016, held in Nantes, France, in April 2016. The 32 revised full papers presented together with 2 invited talks were carefully selected from 51 submissions.

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Advances in Discrete Geometry: 16th International Conference on Discrete Geometry for Computer Imagery Edited by Isabelle Debled-Rennesson , Eric Domenjoud , Bertrand Kerautret , Philippe Even Volume 161, Issue 15, Pages 2223-2348 (October 2013)

Discrete Applied Mathematics - ScienceDirect.com

Discrete geometry and combinatorial geometry are branches of geometry that study combinatorial properties and constructive methods of discrete geometric objects. Most questions in discrete geometry involve finite or discrete sets of basic geometric objects, such as points , lines , planes , circles , spheres , polygons , and so forth.

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We will describe here how the Helmholtz principle, which is a principle of visual perception, can be translated into a computational tool that can be used for many problems of discrete image analysis.

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