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The process of breaking up a physical domain into smaller sub-domains, known as meshing, facilitates the numerical solution of partial differential equations used to simulate physical systems. This monograph gives a detailed treatment of applications of geometric methods to advanced grid technology.

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Abstract The aim of this work is to develop a systematic manner to close overdetermined systems arising from conformal Killing tensors (CKT). The research performs this action for 1-tensor and 2-tensors.

Symmetries in Differential Geometry: A Computational ...

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A computational differential geometry approach to grid ...

Our approach is evaluated on synthetic and real data-sets and achieves state-of-the-art results. 1: Department of Engineering, University of Cambridge, UK 2: Laboratory for Computational and Statistical Learning, Istituto Italiano di Tecnologia, Genoa, Italy 1. Introduction Recovering the

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