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Diagrammatic approach for constructing multiresolution of primal subdivisions

Richard Bartels, Ali Mahdavi-Amiri, Faramarz Samavati, Nezam Mahdavi-Amiri

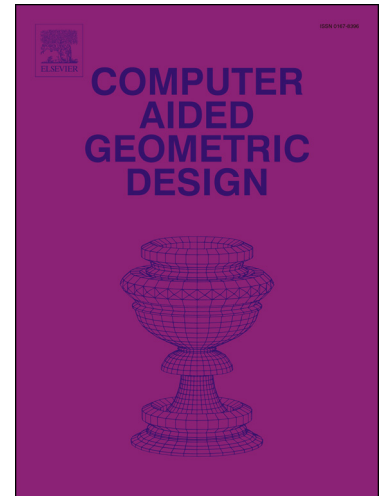
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## Highlights

- We extend diagrammatic approaches to construct multiresolution for semiregular meshes with extraordinary vertices and examine our technique for  $\sqrt{3}$  subdivision in detail.
- We provide indications that our proposed approach for  $\sqrt{3}$  subdivision is potentially useful for other primal subdivision schemes by mentioning results for the Loop and Catmull-Clark subdivisions.
- We analyze the quality of the reversal matrix and present a technique using numerical optimization.

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