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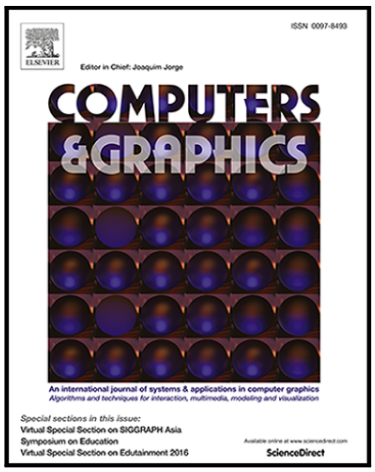


# Multi-scale surface reconstruction based on a curvature-adaptive signed distance field

Yizhi Tang, Jieqing Feng

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**Highlights**

- A multi-scale approach for surface reconstruction from oriented points is proposed.
- The approach relies on building and fitting a curvature-adaptive signed distance field.
- The local resolution of the signed distance field is adaptive to the local principal curvature.
- Detail-preserving, adaptive, crack-free triangular meshes are reconstructed.

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