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A cellular automaton – finite volume method for the simulation of dendritic and eutectic growth in binary alloys using an adaptive mesh refinement

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Highlights

- Adaptive finite volume method for simulation of microstructure evolution.
- Adaptive algorithm based on quadtree structure.
- Novel calculation of interphase normal and curvature.
- Parametric study of mesh anisotropy.
- Efficient and accurate calculation of dendritic and eutectic growth in 2D.

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