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An element-free Galerkin meshless method for simulating the behavior of cancer cell invasion of surrounding tissue

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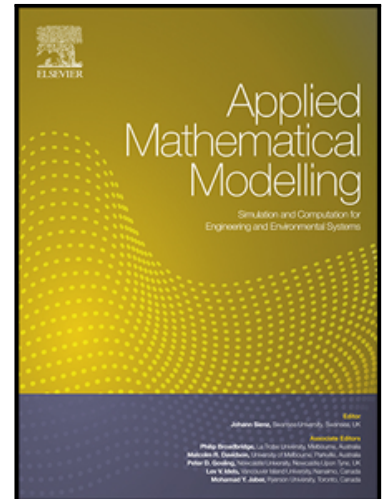
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Highlights

- We consider the mathematical model of cancer cell invasion of surrounding tissue.
- The proposed model is a reaction-diffusion-taxis partial differential equation .
- Element-free Galerkin method is applied for approximating the spatial variables.
- For approximating the time variable, a semi-implicit finite difference scheme is used.
- Numerical simulations are obtained for showing the process of tumor growth.

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