

Attempts towards the application of the self-organization in the reaction-diffusion systems

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Abstract

I will introduce some of my attempts for the application of the self-organization arising on some reaction-diffusion systems. One is a mesh-generation method, which is based on the pattern formation on a reaction-diffusion system, so called the Gray-Scott model. The mesh produced by our method is qualitatively fine and has potential to extend problems in the higher dimension.

Research area(s): Theory and applications of Voronoi diagrams, Molecular geometry