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Equations aux dérivées partielles non-linéaires, théorie spectrale et applications

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Title : Texture Analysis of Biomedical Images by Reaction Diffusion Process

Abstract : This work is devoted to the mathematical study of a new coupled Reaction-Diffusion system. The proposed model is applied to texture analysis in images. For this reason, new techniques are used to establish the existence and uniqueness of an entropy solution of the proposed system with BV initial data. Few numerical simulations illustrate the theoretical results.

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