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A numerical solution for a variable-order reaction–diffusion model by using fractional derivatives with non-local and non-singular kernel

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Highlights

The Liouville-Caputo and Atangana-Baleanu-Caputo fractional derivatives with variable-order are applied to Gray-Scott model.

Complicated space-time structures are obtained.

Several chaotic behaviors are obtained with the application of these fractional derivatives.

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