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Title: Using efficient parallelization in Graphic Processing Units to parameterize stochastic fire propagation models

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- An efficient cellular automata model to simmulate forest fire propagation is developed.
- The application is developed in parallel for Graphic Processing Units according to High Performance Computing technology.
- The propagation model is fitted to data using Genetic Algorithm and Monte Carlo simulations.
- The application has two main objectives propagation parameter estimation and fire spread simulations.

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