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people with passing familiarity with the idea of cellular automata (CA), the first thing that comes to mind is probably John Horton Conway ' s Game of Life. After Martin Gardner described Conway ' s Game of Life (often abbreviated to Life, GOL, or similar) in his mathematical games column of Scientific American in 1970, the game developed into its own niche, attracting formal research and casual tinkering alike.

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Applications of Cellular Automata There exist many

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possible applications of CA , such as musical composition, structural design, modeling fluid dynamics, modeling seismic wave propagation, digital mechanics, etc.

Localisation of update rules for CA models allow for high parallelisation of computation, making CA simulations highly efficient (Spezzano and Talia, 1999).

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