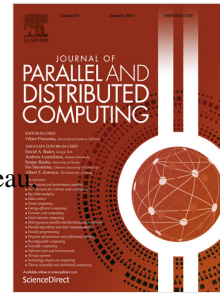


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A scalable algorithm for simulating the structural plasticity of the brain

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Highlights

- A scalable algorithm from particle physics can be adapted to solve large-scale problems in neuroscience
- The approximation underlying the algorithm does not adversely affect the quality of the results
- The scalable algorithm can simulate structural plasticity in the brain with 10^9 neurons
- Performance extrapolations suggest that the algorithm could in principle simulate neuron counts as found in the human brain (10^{11})

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