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Title: Multi-Agent Simulated Annealing Algorithm with Parallel Adaptive Multiple Sampling for Protein Structure Prediction in AB off-lattice model

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- A multi-agent simulated annealing algorithm with parallel adaptive multiple sampling (MASA-PAMS) is presented to run simulated annealing (SA) algorithm collaboratively.
- A parallel elitist sampling strategy to overcome the inherent serialization of the original SA
- An adaptive neighborhood search and a parallel multiple move mechanism displace the random sampling scheme of SA
- The traditional Markov Chain is replaced by parallel move of multiple individual, which accommodates the most fine-grained level of parallelism

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