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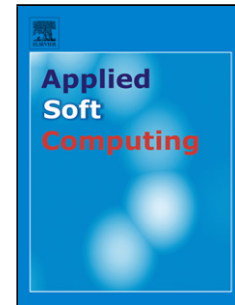
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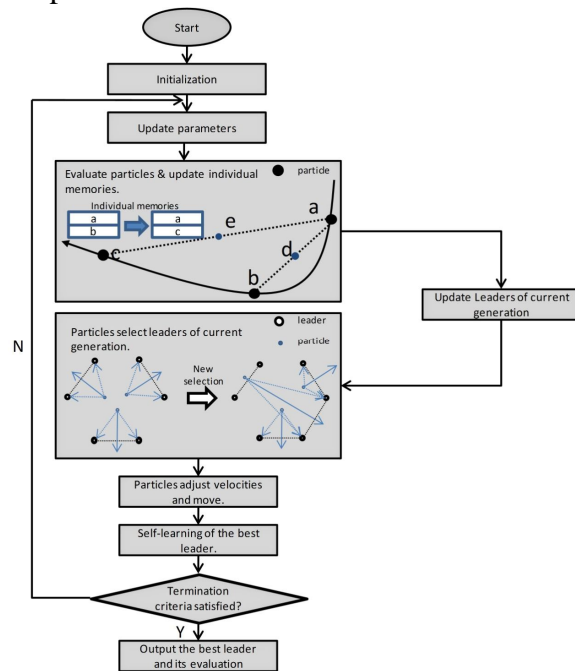
# Multi-leader PSO (MLPSO): A New PSO Variant for Solving Global Optimization Problems

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## Graphical abstract



## Highlights

- Weak exploration ability and premature convergence restrict performance of PSO
- Particles consult more valuable information to adjust its search pattern
- Leaders enhance diversity of particles' search pattern.
- Particles dynamically select their leaders based on the game theory
- The best leader of generations updates itself through a self-learning process

**Abstract:** Particle swarm optimization (PSO) has long been attracting wide attention from researchers in the community. How to deal with the weak exploration ability and premature convergence of PSO remains

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