

NATURE-INSPIRED COMPUTATION IN NAVIGATION AND VEHICLE ROUTING

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Nature-inspired computation and its relevant algorithms, especially those based on swarm intelligence, have become effective in recent years in solving a diverse range of optimization problems in real-world applications, from engineering optimization to scheduling and from vehicle routing to asymmetric travelling salesman problems. This special session strives to provide a platform for presenting state-of-the-art developments in this area, with an emphasis on the applications in navigation and vehicle routing.

This intended CEC2017 Special Session will enable researchers to discuss theoretical analysis of nature-inspired optimization algorithms, algorithm implementation and case studies in navigation, robotics, vehicle routing, scheduling, engineering optimization and industrial applications.

Topics

- Nature-inspired algorithms
- Swarm Intelligence
- Algorithm analysis and implementation
- Algorithm improvement and hybridization
- Navigation and unmanned vehicle automation
- Vehicle routing and scheduling
- Travelling salesman problems
- Case studies in engineering and industrial applications