

WCCI CEC CALL FOR PAPERS



IMPORTANT DATES

15 November 2023

Special Session & Workshop
Proposals Deadline

15 December 2023

Competition & Tutorial
Proposals Deadline

15 January 2024

Paper Submission Deadline

15 March 2024

Paper Acceptance
Notification

1 May 2024

Final Paper Submission &
Early Registration Deadline

30 June – 5 July 2024

IEEE WCCI 2024
Yokohama, Japan

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• Algorithms

- ◇ Ant colony optimization
- ◇ Artificial immune systems
- ◇ Coevolutionary systems
- ◇ Cultural algorithms
- ◇ Differential evolution
- ◇ Estimation of distribution algorithms
- ◇ Evolutionary programming
- ◇ Evolution strategies
- ◇ Genetic algorithms
- ◇ Genetic programming
- ◇ Heuristics, metaheuristics and hyper-heuristics
- ◇ Interactive evolutionary computation
- ◇ Learning classifier systems
- ◇ Memetic, multi-meme and hybrid algorithms
- ◇ Molecular and quantum computing
- ◇ Multi-objective evolutionary algorithms
- ◇ Parallel and distributed algorithms
- ◇ Particle swarm optimization

• Theory and Implementation

- ◇ Adaptive dynamic programming and reinforcement learning
- ◇ Autonomous mental development
- ◇ Coevolution and collective behavior
- ◇ Convergence, scalability and complexity analysis
- ◇ Evolutionary computation theory
- ◇ Representation and operators
- ◇ Self-adaptation in evolutionary computation

• Learning and Optimization

- ◇ Numerical optimization
- ◇ Discrete and combinatorial optimization
- ◇ Multiobjective optimization
- ◇ Supervised, unsupervised and reinforcement learning
- ◇ Data mining
- ◇ Machine learning for evolutionary computation
- ◇ Image and computer vision

• Handling of Various Aspects

- ◇ Large-scale problems
- ◇ Preference handling
- ◇ Evolutionary simulation-based optimization
- ◇ Meta-modeling and surrogate models
- ◇ Dynamic and uncertain environments
- ◇ Constraint and uncertainty handling

• Hybrid Systems of Computational Intelligence

- ◇ Evolved neural networks
- ◇ Evolutionary fuzzy systems
- ◇ Evolved neuro-fuzzy systems

• Related Areas and Applications

- ◇ Art and music
- ◇ Artificial ecology and artificial life
- ◇ Autonomous mental and behavior development
- ◇ Biometrics, bioinformatics and biomedical applications
- ◇ Defense and cyber security
- ◇ Evolutionary games and multi-agent systems
- ◇ Evolvable hardware and software
- ◇ Evolutionary Robotics
- ◇ Engineering applications
- ◇ Emergent technologies
- ◇ Finance and economics
- ◇ Games
- ◇ Intelligent systems applications
- ◇ Robotics
- ◇ Real-world applications
- ◇ Bayesian optimization

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