

# Special Session on Theoretical Foundations of Evolutionary Computation

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## Organizers:

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## Description:

Evolutionary computation methods such as evolutionary algorithms or ant colony optimization have been shown to be very successful when dealing with real-world applications or problems from combinatorial optimization. The theoretical understanding of these, in practice successful, algorithms is an important topic and has gained increasing interest in recent years. The aim of this special session is to bring together people working on theoretical aspects of evolutionary computation methods. We invite submission concerning all kinds of theoretical analyses of evolutionary computation. Topics of interest include (but are not limited to):

- population dynamics
- approaches from statistical mechanics
- runtime analysis
- fitness landscapes and problem difficulty
- self-adaptation

## Submission:

All papers should be submitted electronically through the conference website. To submit to this special session choose Track "SS Theoretical Foundations of Evolutionary Computation" in the submission system.

## Important Dates:

Paper Submission Deadline: November 1, 2008  
Decision Notification: January 16, 2009  
Camera-Ready Submission: February 16, 2009

## Further information:

CEC 2009 Website: [www.cec-2009.org](http://www.cec-2009.org)