

## Special Session on Parameter Setting in Evolutionary Algorithms

### Introduction

Evolutionary computing researchers and practitioners know very well that choosing good parameter settings is essential for good performance of evolutionary algorithms. However, the defining attributes (e.g., the parent selection method) and the parameter values (e.g., the mutation rate) of evolutionary algorithms have been and often still are chosen in an ad hoc fashion, regularly on the basis of unverified conventions and beliefs.

Adaptation of parameters and operators through tuning (off-line) or control (on-line) comprises a field of research that seeks to address this omission. As such, it is currently one of the most important and promising areas of research in evolutionary computation.

The aim of this special session is to reflect the state-of-the-art in the field, and raise the awareness of this important area in the evolutionary computation community.

### Topics

Topics of interest include, but are not limited to:

- Parameter Tuning
- Parameter Control
- Adaptive Parameter Control
- Deterministic Parameter Control
- Self-Adaptation
- Meta Algorithms
- Adaption of Representation
- Adaption of Variation Operators
- Adaption of Selection Operators
- Adaption of Fitness Function

### Submission

Papers submitted for this session will be peer-reviewed with the same criteria used for other contributed papers. The paper format of the conference is available on the website: <http://www.cec-2009.org>. After the final decision is made, authors will receive a notification letter accompanied with the reports of the reviewers. Accepted papers will be published at CEC2009 and at least one of the authors must register and attend to present his/her paper at CEC2009.

Papers will be submitted via the CEC submission system. Please follow the instructions carefully to upload your papers. If you experience any difficulty, please feel free to contact us directly.

# IEEE Congress on Evolutionary Computation

Trondheim, Norway, 18th-21st May, 2009

## Post-conference Publication

Following CEC the organisers of the special session intend to publish a special journal issue. Authors of accepted papers in this special session may be invited to extend their work for the journal publication.

## Organisers

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## Timeline

- Paper Submission: November 1st, 2008
- Notification of acceptance/rejection: January 16th, 2009
- Camera-ready submission: February 16th, 2009