

## Call for Papers

### Special Session on Linkage in Evolutionary Computation (LEC 2009)

<http://lec2009.nclab.tw>

### 2009 IEEE Congress on Evolutionary Computation (IEEE CEC 2009)

May 18—21, 2009, Trondheim, Norway

<http://www.cec-2009.org>

## Overview

Genetic and evolutionary algorithms (GEAs) are powerful search methods based on the paradigm of evolution and widely applied to solve problems in many disciplines. In order to improve the performance and applicability, numerous sophisticated mechanisms have been introduced and integrated into GEAs in the past decades. One major category of these enhancing mechanisms is the concept of linkage, which models the relation between the decision variables with the genetic linkage observed in biological systems, and linkage learning techniques. Linkage learning connects the computational optimization methodologies and the natural evolution mechanisms. Not only can learning and adapting natural mechanisms enable us to design better computational methodologies, but also the insight gained by observing and analyzing the algorithmic behavior permits us to further understand biological systems, based on which GEAs are developed.

## Scope

This special session aims at providing a forum for reviewing of current state-of-art linkage learning techniques, exchanging of ideas and viewpoints on linkage, as well as discussing the future directions. We invite researchers to submit their original and unpublished work related to, but not limited to, the following topics:

- Linkage in biological systems and computational algorithms
- Linkage for discrete/continuous variables
- Linkage processing, handling, and learning techniques
- Identification and utilization of linkage
- Adaptation of representation and/or operators for linkage
- Theoretical aspects of linkage
- Applications of the linkage concept
- Position papers
- Real-world applications

### Submission Guidelines

Manuscripts should be prepared according to the standard format of regular papers specified in IEEE CEC 2009. Paper submission is online through the IEEE CEC 2009 submission website. Special session papers will be treated in the same way as regular papers and included in the conference proceedings.

**New!!** Authors of accepted papers will be invited to submit an extended version of their papers for publication consideration in a volume in the series on Evolutionary Learning and Optimization to be published by Springer.

### Important Dates

Paper Submission: November 01, 2008 extended to November 14, 2008

Decision Notification: January 16, 2009 extended to February 06, 2009

Camera-Ready Submission: February 16, 2009 extended to February 27, 2009

Session Organizers

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