

Call for Book Chapters

Title: Linkage in Evolutionary Computation

ISBN: 978-3-540-85067-0

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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 edited volume aims at reviewing the state-of-art linkage learning techniques, exchanging ideas and viewpoints on linkage, as well as discussing the future research directions. We invite researchers to submit their original 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 series book format provided by Springer, and the page limit for each chapter is 30 pages. Prospective authors are invited to submit a one to two-page proposal describing the topic of the chapter. The proposal should include the chapter organization, number of pages of the final manuscript and contact authors. Please direct all correspondences and proposal submissions to one of the editors.

Important Dates

Indication of Intention to Contribute: October 22, 2007

Submission of Manuscripts: February 15, 2008

Submission of Review Comments: March 20, 2008

Submission of Revised Manuscripts: April 10, 2008

Submission of the Final Camera-ready Manuscript (to Springer): April 30, 2008

Editors

Ying-ping Chen

Department of Computer Science

National Chiao Tung University, Taiwan

Email: ypchen@cs.nctu.edu.tw

Meng-Hiot Lim

Division of Circuits and Systems

Nanyang Technological University, Singapore

Email: emhlim@ntu.edu.sg

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Q & A

1. Q: What reference style should I use for my chapter?

A: The one that you use for the CEC paper. Basically, reference numbers are in brackets, and references appear in the order they appear in the text.