

Linkage in Evolutionary Computation

<http://lec.nclab.tw>

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.

Activities

- Workshops / Special Sessions in Conferences
- [Special Session on Linkage in Evolutionary Computation \(LEC 2009\)](#)
- In [2009 IEEE Congress on Evolutionary Computation](#)
- Organized by [Ying-ping Chen](#) , [Chuan-Kang Ting](#) , [Pier Luca Lanzi](#) , and [Meng-Hiot](#)

[Lim](#)

- Call for Papers: [A4](#)
- [Special Session on Linkage in Evolutionary Computation \(LEC 2007\)](#)
- In [2007 IEEE Congress on Evolutionary Computation](#)
- Organized by [Ying-ping Chen](#) and [Meng-Hiot Lim](#)
- Call for Papers: [A4](#) [Letter](#)

- Books, Journals, and Proceedings
- [Exploitation of Linkage Learning in Evolutionary Algorithms](#)
- Special volume for [LEC 2009](#) in the series on [Evolutionary Learning and Optimization](#) published by [Springer](#)
- Edited by [Ying-ping Chen](#)
- Call for Book Chapters: [A4](#)
- Book Chapter Templates: [Instructions for Authors](#) [Templates](#)
- [Book Chapter Submission & Review](#)
- [Book Chapter Final Version Upload](#)
- [Linkage in Evolutionary Computation](#) : [Springer Link](#) [Amazon Link](#)
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