



Sampled Walk and Binary Fitness Landscapes Exploration

Submitted by Adrien Goeffon on Mon, 12/18/2017 - 15:19

Titre Sampled Walk and Binary Fitness Landscapes Exploration

Type de publication Communication

Type Communication avec actes dans un congrès

Année 2017

Langue Anglais

Date du colloque 25-27/10/2017

Titre du colloque International Conference on Artificial Evolution (EA)

Titre des actes ou de la revue 13th Biennial International Conference on Artificial Evolution Proceedings

Pagination 53-64

Auteur Tari, Sara [1], Basseur, Matthieu [2], Goëffon, Adrien [3]

Pays France

Ville Paris

ISBN 978-2-9539267-7-4

Résumé en anglais In this paper we present and investigate partial neighborhood local searches, which only explore a sample of the neighborhood at each step of the search. We particularly focus on establishing link between the structure of optimization problems and the efficiency of such local search algorithms. In our experiments we compare partial neighborhood local searches to state-of-the-art tabu search and iterated local search and perform a parameter sensitivity analysis by observing the efficiency of partial neighborhood local searches with different size of neighborhood sample. In order to facilitate the extraction of links between instances structure and search algorithm behavior we restrain the scope to binary fitness landscapes, such as NK landscapes and landscapes derived from UBQP.

URL de la notice <http://okina.univ-angers.fr/publications/ua16541> [4]

Lien vers le document en ligne https://ea2017.inria.fr/EA2017_Proceedings_web_ISBN_978-2-9539267-7-4.pdf [5]

Liens

[1] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=25609>

[2] <http://okina.univ-angers.fr/matthieu.basseur/publications>

[3] <http://okina.univ-angers.fr/adrien.goeffon/publications>

[4] <http://okina.univ-angers.fr/publications/ua16541>

[5] https://ea2017.inria.fr/EA2017_Proceedings_web_ISBN_978-2-9539267-7-4.pdf

Publié sur *Okina* (<http://okina.univ-angers.fr>)