

Local Search for the Maximum Parsimony Problem

Submitted by Adrien Goeffon on Thu, 02/12/2015 - 11:32

Titre Local Search for the Maximum Parsimony Problem
Type de publication Communication
Type Communication avec actes dans un congr s
Ann e 2005
Langue Anglais
Volume 3612
Pagination 678-683
Auteur Go ffon, Adrien [1], Richer, Jean-Michel [2], Hao, Jin-Kao [3]
Editeur Springer Berlin Heidelberg
Ville Berlin, Heidelberg
ISBN 978-3-540-28320-1

R sum  en anglais Four local search algorithms are investigated for the phylogenetic tree reconstruction problem under the Maximum Parsimony criterion. A new subtree swapping neighborhood is introduced and studied in combination with an effective array-based tree representation. Computational results are shown on a set of randomly generated benchmark instances as well as on 8 real problems (sequences of phytopathogen γ -proteobacteria) and compared with two references from the literature.

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DOI [10.1007/11539902_83](http://dx.doi.org/10.1007/11539902_83) [5]

Liens

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