



PUSH: A generalized operator for the Maximum Vertex Weight Clique Problem

Submitted by Jin-Kao Hao on Wed, 12/07/2016 - 10:05

Titre	PUSH: A generalized operator for the Maximum Vertex Weight Clique Problem
Type de publication	Article de revue
Auteur	Zhou, Yi [1], Hao, Jin-Kao [2], Goëffon, Adrien [3]
Pays	Pays-Bas
Editeur	Elsevier
Ville	Amsterdam
Type	Article scientifique dans une revue à comité de lecture
Année	2017
Langue	Anglais
Date	16 Fév. 2017
Numéro	1
Pagination	41-54
Volume	257
Titre de la revue	European Journal of Operational Research
ISSN	0377-2217
Mots-clés	Cliques [4], Heuristics [5], Local search [6], tabu search [7]
Résumé en anglais	<p>The Maximum Vertex Weight Clique Problem (MVWCP) is an important generalization of the well-known NP-hard Maximum Clique Problem. In this paper, we introduce a generalized move operator called PUSH, which generalizes the conventional ADD and SWAP operators commonly used in the literature and can be integrated in a local search algorithm for MVWCP. The PUSH operator also offers opportunities to define new search operators by considering dedicated candidate push sets. To demonstrate the usefulness of the proposed operator, we implement two simple tabu search algorithms which use PUSH to explore different candidate push sets. The computational results on 142 benchmark instances from different sources (DIMACS, BHOSLIB, and Winner Determination Problem) indicate that these algorithms compete favorably with the leading MVWCP algorithms.</p>
URL de la notice	http://okina.univ-angers.fr/publications/ua15244 [8]
DOI	10.1016/j.ejor.2016.07.056 [9]
Lien vers le document	http://www.sciencedirect.com/science/article/pii/S0377221716306117 [10]

Liens

[1] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=26863>

[2] <http://okina.univ-angers.fr/jinkao.hao/publications>

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

- [4] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=21865>
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- [9] <http://dx.doi.org/10.1016/j.ejor.2016.07.056>
- [10] <http://www.sciencedirect.com/science/article/pii/S0377221716306117>

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