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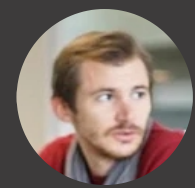
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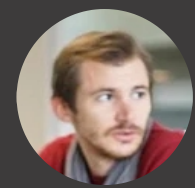
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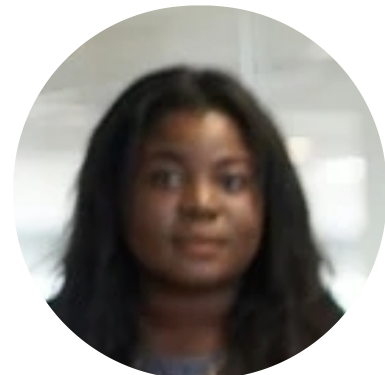
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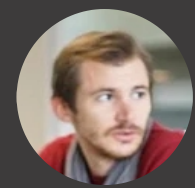
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Sergio Gil-Borrás, Eduardo G. Pardo, Antonio Alonso-Ayuso & Abraham Duarte
Progress in Artificial Intelligence, 126, 240-300. (2020)

10.1007/s13748-020-00215-1

Multistart search for the Cyclic Cutwidth Minimization Problem

Sergio Cavero, Eduardo G. Pardo, Manuel Laguna, Abraham Duarte
Computers & Operations Research, 126, 105116. (2020)

10.1016/j.cor.2020.105116

GRASP with Variable Neighborhood Descent for the online order batching problem

Sergio Gil-Borrás, Eduardo G. Pardo, Antonio Alonso-Ayuso & Abraham Duarte
Journal of Global Optimization, 78, 295–325. (2020)

10.1007/s13748-020-00215-1

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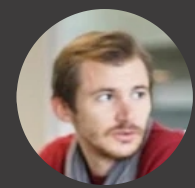
Abdessamad Ouzidan, Marc Sevaux, Alexandru-Liviu Olteanu, Eduardo G. Pardo & Abraham Duarte
Optimization Letters, 26, 40-300. (2020)

10.1007/s11590-020-01640-w

Heuristics and metaheuristics for the maximum diversity problem

Rafael Martí, Micael Gallego, Abraham Duarte & Eduardo G. Pardo
Journal of Heuristics, 19, 591–615. (2013)

10.1007/s10732-011-9172-4



Problems

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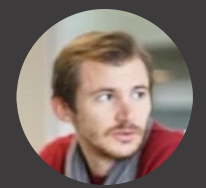
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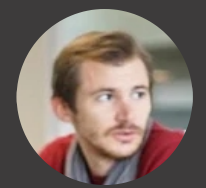
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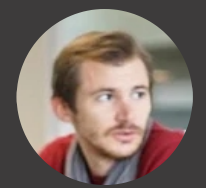
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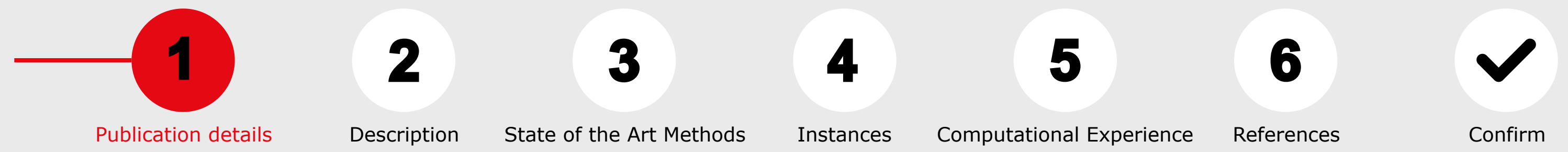
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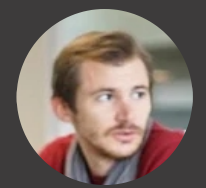
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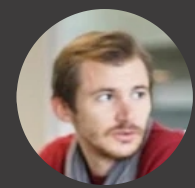
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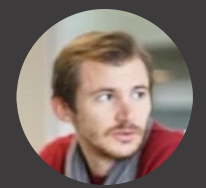
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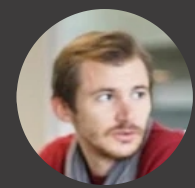
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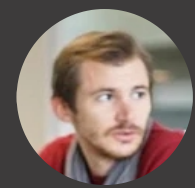
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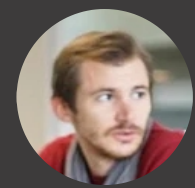
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The Cyclic Cutwidth Minimization Problem (CCMP) is a Graph Layout Problem that consists of finding an embedding of the vertices of a candidate graph in a host graph, in order to minimize the maximum cut of a host edge. In this case, the host graph is restricted to be a cycle. In this paper, we identify a new lower bound for the problem, and also a property which allows search procedures to drastically reduce the neighborhood size during the search. Additionally, we propose the use of an alternative objective function for min-max optimization problems, never used before in the context of the CCMP. These strategies have been combined within a multistart search procedure for this problem. The obtained method is compared with the state of the art for the CCMP using sets of problem instances previously published. Statistical tests indicate the merit of our proposal.

Keywords

Cyclic cutwidth, Graph layout problem, Circular embedding, Tabu Search, Multistart search



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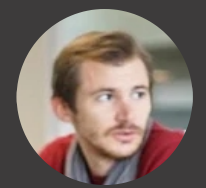
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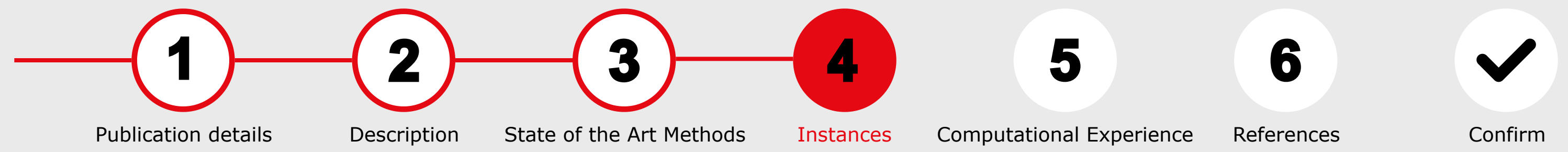
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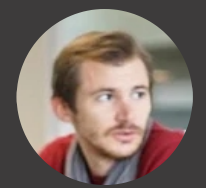
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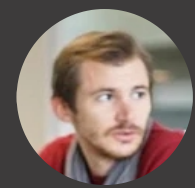
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