

Publication

An Analysis of Merge Strategies for Merge-and-Shrink Heuristics

ConferencePaper (Artikel, die in Tagungsbänden erschienen sind)

ID 3677052

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Year 2016

Title An Analysis of Merge Strategies for Merge-and-Shrink Heuristics

Book title (Conference Proceedings) Proceedings of the Twenty-Sixth International Conference on Automated Planning and Scheduling (ICAPS 2016)

Place of Conference London, England

Publisher AAAI Press

Pages 294-298

ISSN/ISBN 978-1-57735-757-5

The merge-and-shrink framework provides a general basis for the computation of abstraction heuristics for factored transition systems. Recent experimental and theoretical research demonstrated the utility of non-linear merge strategies, which have not been studied in depth. We experimentally analyze the quality of state-of-the-art merge strategies by comparing them to random strategies and with respect to tie-breaking, showing that there is considerable room for improvement. We finally describe a new merge strategy that experimentally outperforms the current state of the art.

URL <http://www.aaai.org/ocs/index.php/ICAPS/ICAPS16/paper/view/13148>

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Full Text on edoc Available;