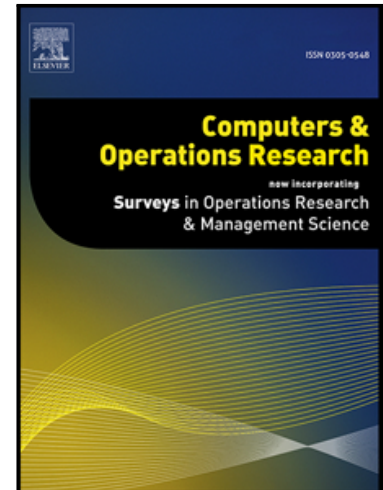


Accepted Manuscript

Symmetry Breaking in Mixed Integer Linear Programming Formulations for Blocking Two-level Orthogonal Experimental Designs

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PII: S0305-0548(18)30084-4
DOI: [10.1016/j.cor.2018.04.001](https://doi.org/10.1016/j.cor.2018.04.001)
Reference: CAOR 4442



To appear in: *Computers and Operations Research*

Received date: 15 September 2016
Revised date: 31 January 2018
Accepted date: 3 April 2018

Please cite this article as: Nha Vo-Thanh, Raf Jans, Eric D. Schoen, Peter Goos, Symmetry Breaking in Mixed Integer Linear Programming Formulations for Blocking Two-level Orthogonal Experimental Designs, *Computers and Operations Research* (2018), doi: [10.1016/j.cor.2018.04.001](https://doi.org/10.1016/j.cor.2018.04.001)

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Highlights

- Orthogonal blocking is a challenging problem in design of experiments.
- The problem can be tackled using integer linear programming (ILP).
- Symmetry breaking formulations speed up the solution of the ILP.
- For some instances, an asymmetric representatives formulation is extremely fast.
- Our work remains useful even though solvers implement symmetry breaking too.

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