

Accepted Manuscript

Subset Simulation for multi-objective optimization

Xin-Shi Suo , Xiong-Qing Yu , Hong-Shuang Li

PII: S0307-904X(17)30101-4
DOI: [10.1016/j.apm.2017.02.005](https://doi.org/10.1016/j.apm.2017.02.005)
Reference: APM 11593

To appear in: *Applied Mathematical Modelling*

Received date: 23 January 2016
Revised date: 2 September 2016
Accepted date: 2 February 2017

Please cite this article as: Xin-Shi Suo , Xiong-Qing Yu , Hong-Shuang Li , Subset Simulation for multi-objective optimization, *Applied Mathematical Modelling* (2017), doi: [10.1016/j.apm.2017.02.005](https://doi.org/10.1016/j.apm.2017.02.005)



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Highlight

- Subset simulation is extended to be a multi-objective optimization method
- A non-dominated sorting algorithm is introduced to judge the priority of a sample
- Effects of sample size and seed sample proportion was investigated
- Comparisons were made with NSGA-II for four benchmark problems
- The proposed method was applied on the optimization design of a civil jet

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