

## Accepted Manuscript

An Improved Particle Swarm Optimization Algorithm for Reliability-Redundancy Allocation Problem with Mixed Redundancy Strategy and Heterogeneous Components

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PII: S0951-8320(18)30412-5  
DOI: <https://doi.org/10.1016/j.ress.2018.09.005>  
Reference: RESS 6256



To appear in: *Reliability Engineering and System Safety*

Received date: 3 April 2018  
Revised date: 31 August 2018  
Accepted date: 6 September 2018

Please cite this article as: Zhiyuan Ouyang , Yu Liu , Sheng-Jia Ruan , Tao Jiang , An Improved Particle Swarm Optimization Algorithm for Reliability-Redundancy Allocation Problem with Mixed Redundancy Strategy and Heterogeneous Components, *Reliability Engineering and System Safety* (2018), doi: <https://doi.org/10.1016/j.ress.2018.09.005>

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**HIGHLIGHTS**

- A new reliability-redundancy allocation problem (RRAP) is studied.
- Components in each subsystem of the RRAP can be heterogeneous.
- A stochastic perturbation particle swarm optimization (SPPSO) is put forth.
- The SPPSO is more effective in resolving the new RRAP.

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