

## Multi-Objective Optimization of Combined System Reliability and Redundancy Allocation Problem

**Authors :** Vijaya K. Srivastava, Davide Spinello

**Abstract :** This paper presents established 3<sup>n</sup> enumeration procedure for mixed integer optimization problems for solving multi-objective reliability and redundancy allocation problem subject to design constraints. The formulated problem is to find the optimum level of unit reliability and the number of units for each subsystem. A number of illustrative examples are provided and compared to indicate the application of the superiority of the proposed method.

**Keywords :** integer programming, mixed integer programming, multi-objective optimization, Reliability Redundancy Allocation

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