

VECTOR OPTIMIZATION PROBLEM AND ITS APPLICATIONS IN SYSTEM RELIABILITY

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ABSTRACT

The paper proposes an algorithm for 'Hybrid Approach' to solve Vector Optimization Problem (VOP) and the method is useful for convex and non convex optimization problems. Using this approach we test the reliability of the system design. By means of test problems, we illustrate the strengths and advantages of the approach over existing results.

KEYWORDS: Vector Optimization, Scalarization, Pareto Front, Numerical Methods, System Reliability