



## Multi-Objective Optimization (MOO)

### Multi-objective optimization salient issues:

- Dimensionality reduction
- Metrics for comparison of algorithms
- Evolutionary approaches and elitist strategies
- Application to real world problems

### Research Team

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### Research Collaborations

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### Publications

- L. Costa, P. Oliveira, An Adaptive Sharing Elitist Evolution Strategy for Multiobjective Optimization, **Evolutionary Computation**, 11, 4, 417-438, 2003.
- L. Costa, P. Oliveira, An Elitist Genetic Algorithm for Multiobjective Optimization. **Metaheuristics: Computer Decision-Making**, Kluwer Academic Publishers, 217-236, 2003.
- L. Costa, L. Fernandes, I. Figueiredo, J. Júdice, R. Leal, P. Oliveira, Multiple- and single-objective approaches to laminate optimization with genetic algorithms. **Structural Multidisciplinary Optimization**, 27, 55-65, 2004.
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- L. Costa, A New Parameter-less Evolution Strategy for solving Unconstrained Global Optimization Problems. **WSEAS Transactions On Mathematics**, 5 (11): 1247-1254, 2006.
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- A.P. Tereso, L. Costa, R.A. Novais, M.T. Araújo. The Optimal Resource Allocation in Stochastic Activity Networks via the Evolutionary Approach: A Platform Implementation in Java. **Proceedings of International Conference on Industrial Engineering and Systems Management**, China, 2007.

