

PhD project available

School of Engineering and Information Technology,
The University of New South Wales,
Australia, www.unsw.adfa.edu.au

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Project Title: Development of Optimization Methods for Large Scale Computationally Expensive, Constrained Optimization Problems

Supervisors: Professor Tapabrata Ray

Degree: PhD in Computer Science/Mechanical Engineering

Project description:

Designers are often faced with the need to solve large scale, computationally expensive constrained optimization problems. Small and often disconnected feasible patches, high underlying dimensionality of the variable space and computationally expensive assessment of constraints pose significant challenges to population based stochastic optimization algorithms. This project will focus on design of computationally efficient optimization algorithms to solve such classes of problems e.g. MOPTA8, Mazda Bench etc.

Required Background:

Good programming skills in Matlab is a must. Preferably with a Masters Degree in Engineering / Computer Science is desirable with good analytical skills. Demonstrated competence in academic writing and oral presentation skills is necessary. Must meet UNSW admission criteria and English Language requirements.

Expected joining:

As soon as possible. Please send scanned copies of transcripts and CV t.ray@adfa.edu.au

For more information:

Multi-disciplinary Design Optimization (MDO) Group: <http://www.mdolab.net/index.html>