NPTEL Video Course - Mechanical Engineering - NOC:Evolutionary Computation for Single and Multi Objective Opt

Subject Co-ordinator - Prof. Deepak Sharma

Co-ordinating Institute - IIT - Guwahati

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 1 - Introduction to Optimization
Lecture 2 - Introduction to Evolutionary Computation
Lecture 3 - Binary-Coded Genetic Algorithm (BGA)
Lecture 4 - Operators and Simulations of Binary-Coded Genetic Algorithm
Lecture 5 - Real-Coded Genetic Algorithm (RGA)
Lecture 6 - Operators and Simulations of Real-Coded Genetic Algorithm
Lecture 7 - Algorithmic Implementation of BGA and RGA
Lecture 8 - Particle Swarm Optimization (PSO)
Lecture 9 - Simulations and Algorithmic Implementation of Particle Swarm Optimization
Lecture 10 - Differential Evolution (DE)
Lecture 11 - Simulations and Algorithmic Implementation of Differential Evolution
Lecture 12 - Constrained Optimization: Introduction and Optimality
Lecture 13 - Penalty Function Methods for Evolutionary Computing Techniques
Lecture 14 - Evolutionary Computing Techniques: Separation of Objective Function and Constraints
Lecture 15 - Simulations of Constraint Handling Techniques - Part 1
Lecture 16 - Simulations of Constraint Handling Techniques - Part 2
Lecture 17 - Introduction to Multi-Objective Optimization - Part 1
Lecture 18 - Introduction to Multi-Objective Optimization - Part 2
Lecture 19 - Multi-Objective Optimization: Ranking and Diversity
Lecture 20 - Classical Multi-Objective Optimization Methods
Lecture 21 - Non-Dominated Genetic Algorithm: NSGA-II: Introduction
Lecture 22 - Non-Dominated Genetic Algorithm: NSGA-II: Simulations
Lecture 23 - Strength Pareto Evolutionary Algorithm: SPEA2: Introduction
Lecture 24 - Strength Pareto Evolutionary Algorithm: SPEA2: Simulations
Lecture 25 - Performance Assessment of Multi-Objective EC Techniques
Lecture 26 - Closure of EC for Single and Multi-Objective Optimization

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