Mindluster Platform

About the course Constraint Programming Applications

Constraint Programming Applications course in hindi, in this course explore diverse applications of constraint programming techniques in solving complex real-world problems.

Programming Category's Courses

Course Lesson(38)

Lesson 1 : **Computer Aided Applied Single Objective Optimization Introduction Video**

Lesson 2 : **Lec 1 Introduction to Optimization**

Lesson 3 : **Lec 2 Linear Regression**

Lesson 4 : **Lec 3 Multiple Polynomial and General Linear Least Square Regression**

Lesson 5 : **Lec 4 Nonlinear Regression**

Lesson 6 : **Lec 5 Regression MATLAB Implementation**

Lesson 7 : **Lec 6 Teaching Learning Based Optimization**

Lesson 8 : **Lec 7 Implementation of TLBO in MATLAB**

Lesson 9 : **Lec 8 Preliminary Statistical analysis for metaheuristic techniques**

Lesson 10 : **Lec 9 Preliminary Statistical analysis MATLAB implementation**

Lesson 11 : **Lec 10 Particle Swarm Optimization**

Lesson 12 : **Lec 11 Implementation of Particle Swarm Optimization using MATLAB**

Lesson 13 : **Lec 12 Differential Evolution**

Lesson 14 : **Lec 13 Implementation of Differential Evolution using MATLAB**

Lesson 15 : **Lec 14 Binary Coded Genetic Algorithm**

Lesson 16 : **Lec 15 Real Coded Genetic Algorithm**

Lesson 17 : **Lec 16 Implementation of Real Coded Genetic Algorithm using MATLAB**

Lesson 18 : **Lec 17 Artificial Bee Colony Algorithm**

Lesson 19 : **Lec 18 Working of Artificial Bee Colony Algorithm**

Lesson 20 : **Lec 19 Implementation of Artificial Bee Colony using MATLAB**

Lesson 21 : **Lec 20 Comparison of Variation Operators and Survival Strategies**

Lesson 22 : **Lec 21 Black Box Optimization Problems**

Lesson 23 : **Lec 22 Constraint Handling in Metaheuristic Techniques**

Lesson 24 : **Lec 23 Case Study Production planning**

Lesson 25 : **Lec 24 Case Study Production planning MATLAB Implementation**

Lesson 26 : **Lec 25 Parallelization and Vectorization of Fitness Function**

Lesson 27 : **Lec 26 Constraint Handling using Correction Approach**

Lesson 28 : **Lec 27 MATLAB inbuilt functions Linear Mixed Integer Linear Programming**

Lesson 29 : **Lec 28 MATLAB inbuilt functions Nonlinear Mixed Integer Nonlinear Programming**

Lesson 30 :
Lec 29 MATLAB Optimization Tool Options Output Function Vectorization Parallelization

Lesson 31 : **Lec 30 MATLAB inbuilt functions Multi objective Optimization**

Lesson 32 : **Lec 31 Simplex Method for LP**

Lesson 33 : **Lec 32 Branch Bound Method for MILP**

Lesson 34 : **Lec 33 MILP formulation of Production Planning Problem**

Lesson 35 : **Lec 34 Generalized Algebraic Modelling System**

Lesson 36 : **Lec 35 Solution of Production Planning Problem using GAMS NEOS MIRO**

Lesson 37 : **Lec 36 IBM ILOG CPLEX Optimization Studio**

Lesson 38 : **Lec 37 Constraint Programming Applications in IBM ILOG CPLEX Optimization Studio**

Related courses

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