

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Computer Science and Engineering - NOC:Introduction to Soft Computing

Subject Co-ordinator - Prof. Debasis Samanta

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Introduction to soft computing
- Lecture 2 - Introduction to Fuzzy Logic
- Lecture 3 - Fuzzy membership functions (Continued...) and Defining Membership functions
- Lecture 4 - Fuzzy operations
- Lecture 5 - Fuzzy relations
- Lecture 6 - Fuzzy Relations (Continued...) and Fuzzy propositions
- Lecture 7 - Fuzzy implications
- Lecture 8 - Fuzzy Inferences
- Lecture 9 - Defuzzification techniques (Part-I)
- Lecture 10 - Defuzzification Techniques (Part-I) (Continued...)
- Lecture 11 - Fuzzy logic controller
- Lecture 12 - Fuzzy Logic Controller (Continued...)
- Lecture 13 - Fuzzy logic controller (Continued...)
- Lecture 14 - Concept of Genetic Algorithm
- Lecture 15 - Concept of Genetic Algorithm (Continued...) and GA Strategies
- Lecture 16 - GA Operator
- Lecture 17 - GA operator
- Lecture 18 - GA Operator
- Lecture 19 - GA Operator
- Lecture 20 - GA Operator
- Lecture 21 - GA Operator
- Lecture 22 - GA Operator
- Lecture 23 - GA Operator
- Lecture 24 - Multi-objective optimization problem solving
- Lecture 25 - Multi-objective optimization problem solving (Continued...)
- Lecture 26 - Concept of domination
- Lecture 27 - Non-Pareto based approaches to solve MOOPs
- Lecture 28 - Non-Pareto based approaches to solve MOOPs (Continued...)
- Lecture 29 - Pareto-Based approaches to solve MOOPs

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- Lecture 30 - Pareto-based approaches to solve MOOPs (Continued....)
- Lecture 31 - Pareto-based approach to solve MOOPs
- Lecture 32 - Pareto-based approach to solve MOOPs (Continued...)
- Lecture 33 - Pareto-based approach to solve MOOPs (Continued...)
- Lecture 34 - Introduction to Artificial Neural Network
- Lecture 35 - ANN Architectures
- Lecture 36 - Training ANNs
- Lecture 37 - Training ANNs (Continued....)
- Lecture 38 - Training ANNs (Continued....)
- Lecture 39 - Training ANNs (Continued....)
- Lecture 40 - Soft computing tools