

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

NPTEL Video Course - Computer Science and Engineering - Artificial Intelligence (Prof. Deepak Khemani)

Subject Co-ordinator - Prof. Deepak Khemani

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Artificial Intelligence
Lecture 2 - Introduction to AI
Lecture 3 - AI Introduction
Lecture 4 - AI Introduction
Lecture 5 - Introduction
Lecture 6 - State Space Search - Introduction
Lecture 7 - Search - DFS and BFS
Lecture 8 - Search DFID
Lecture 9 - Heuristic Search
Lecture 10 - Hill Climbing
Lecture 11 - Solution Space Search, Beam Search
Lecture 12 - TSP Greedy Methods
Lecture 13 - Tabu Search
Lecture 14 - Optimization - I (Simulated Annealing)
Lecture 15 - Optimization - II (Genetic Algorithms)
Lecture 16 - Population based methods for Optimization
Lecture 17 - Population Based Methods II
Lecture 18 - Branch and Bound, Dijkstra's Algorithm
Lecture 19 - A* Algorithm
Lecture 20 - Admissibility of A*
Lecture 21 - A* Monotone Property, Iterative Deeping A*
Lecture 22 - Recursive Best First Search, Sequence Allignment
Lecture 23 - Pruning the Open and Closed lists
Lecture 24 - Problem Decomposition with Goal Trees
Lecture 25 - AO* Algorithm
Lecture 26 - Game Playing
Lecture 27 - Game Playing - Minimax Search
Lecture 28 - Game Playing - AlphaBeta
Lecture 29 - Game Playing - SSS *

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

- Lecture 30 - Rule Based Systems
- Lecture 31 - Inference Engines
- Lecture 32 - Rete Algorithm
- Lecture 33 - Planning
- Lecture 34 - Planning FSSP, BSSP
- Lecture 35 - Goal Stack Planning. Sussman's Anomaly
- Lecture 36 - Non-linear planning
- Lecture 37 - Plan Space Planning
- Lecture 38 - GraphPlan
- Lecture 39 - Constraint Satisfaction Problems
- Lecture 40 - CSP continued
- Lecture 41 - Knowledge-based systems
- Lecture 42 - Knowledge-based Systems, PL
- Lecture 43 - Propositional Logic
- Lecture 44 - Resolution Refutation for PL
- Lecture 45 - First-order Logic (FOL)
- Lecture 46 - Reasoning in FOL
- Lecture 47 - Backward chaining
- Lecture 48 - Resolution for FOL