NPTEL Video Course - Mechanical Engineering - NOC:Fundamentals of Artificial Intelligence

Subject Co-ordinator - Prof. Shyamanta M. Hazarika

Co-ordinating Institute - IIT - Guwahati

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

Lecture 1 - Introduction to Artificial Intelligence
Lecture 2 - Problem Solving as State Space Search
Lecture 3 - Uninformed Search
Lecture 4 - Heuristic Search
Lecture 5 - Informed Search
Lecture 6 - Constraint Satisfaction Problems
Lecture 7 - Searching AND/OR Graphs
Lecture 8 - Game Playing
Lecture 9 - Minimax + Alpha-Beta
Lecture 10 - Introduction to Knowledge Representation
Lecture 11 - Propositional Logic
Lecture 12 - First Order Logic - I
Lecture 13 - First Order Logic - II
Lecture 14 - Inference in First Order Logic - I
Lecture 15 - Inference in First Order Logic - II
Lecture 16 - Answer Extraction
Lecture 17 - Procedural Control of Reasoning
Lecture 18 - Reasoning under Uncertainty
Lecture 19 - Bayesian Network
Lecture 20 - Decision Network
Lecture 21 - Introduction to Planning
Lecture 22 - Plan Space Planning
Lecture 23 - Planning Graph and GraphPlan
Lecture 24 - Practical Planning and Acting
Lecture 25 - Sequential Decision Problems
Lecture 26 - Making Complex Decisions
Lecture 27 - Introduction to Machine Learning
Lecture 28 - Learning Decision Trees
Lecture 29 - Linear Regression

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Lecture 30 - Support Vector Machines
Lecture 31 - Unsupervised Learning
Lecture 32 - Reinforcement Learning
Lecture 33 - Learning in Neural Networks
Lecture 34 - Deep Learning
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