NPTEL Video Course - Computer Science and Engineering - NOC:Artificial Intelligence for Economics

Subject Co-ordinator - Prof. Dripto Bakshi, Prof. Adway Mitra, Prof. Palash Dey

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Network Data - Some Stories !!
Lecture 2 - The Stable Matching Algorithm
Lecture 3 - Uncertainty in Financial Markets : Idea of Hedging
Lecture 4 - Uncertainty in Financial Markets : Idea of Hedging (Continued...)
Lecture 5 - Uncertainty in Financial Markets : Idea of Hedging (Continued...)
Lecture 6 - Unconstrained Optimization
Lecture 7 - Constrained Optimization
Lecture 8 - Heuristic Search Techniques
Lecture 9 - Multi-objective Heuristic Search and Game Trees
Lecture 10 - Clustering and Segmentation
Lecture 11 - Decision Tree and Random Forest
Lecture 12 - Linear Regression and Classifiers
Lecture 13 - Uncertainty Modeling
Lecture 14 - Neural Networks
Lecture 15 - Deep Learning for Time Series Forecasting
Lecture 16 - Causality in Time-Series
Lecture 17 - Interventional Causality and Attribution
Lecture 18 - Game Theory
Lecture 19 - Game Theory (Continued...)
Lecture 20 - Game Theory (Continued...) Games with Incomplete Information
Lecture 21 - Game Theory (Continued...) Games with Incomplete Information (Continued...)
Lecture 22 - Game Theory - Sequential Games
Lecture 23 - Game Theory - Rubenstein Bargaining
Lecture 24 - Network Economics
Lecture 25 - Network Economics (Continued...)
Lecture 26 - Introduction to Auction Theory
Lecture 27 - Second Price Auction
Lecture 28 - First Price Auction
Lecture 29 - Overview of Mechanism Design

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Lecture 30 - Groves Mechanism
Lecture 31 - VCG Mechanism
Lecture 32 - Single Parameter Domain and Myerson Lemma
Lecture 33 - Sponsored Search Auction
Lecture 34 - Single Peaked Domain and Median Voting
Lecture 35 - Dimensionality Reduction (Principal Component Analysis) â  The Math Prerequisites
Lecture 36 - Dimensionality Reduction (Principal Component Analysis) â  The Technique
Lecture 37 - Agent-based Modeling for Economics
Lecture 38 - Computer Vision for Economics
Lecture 39 - Text Mining and NLP for Economics
Lecture 40 - Bias, Fairness, Ethics and Interpretability in AI
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