

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

NPTEL Video Course - Computer Science and Engineering - NOC:Artificial Intelligence: Knowledge Representation

Subject Co-ordinator - Prof. Deepak Khemani

Co-ordinating Institute - IIT - Madras

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

- Lecture 1 - Introduction
- Lecture 2 - Introduction to Knowledge Representation and Reasoning
- Lecture 3 - An Introduction to Formal Logics
- Lecture 4 - Propositional Logic
- Lecture 5 - Propositional Logic
- Lecture 6 - Propositional Logic
- Lecture 7 - Propositional Logic
- Lecture 8 - Propositional Logic
- Lecture 9 - Propositional Logic
- Lecture 10 - Propositional Logic
- Lecture 11 - Syntax
- Lecture 12 - Semantics
- Lecture 13 - Entailment and Models
- Lecture 14 - Proof Systems
- Lecture 15 - Forward Chaining
- Lecture 16 - Unification
- Lecture 17 - Forward Chaining Rule Based Systems
- Lecture 18 - The Rete Algorithm
- Lecture 19 - Rete Algorithm - Example
- Lecture 20 - Programming in a Rule Based Language
- Lecture 21 - The OPS5 Expert System Shell
- Lecture 22 - Skolemization
- Lecture 23 - Terminological Facts
- Lecture 24 - Properties and Categories
- Lecture 25 - Reification and Abstract Entities
- Lecture 26 - Resource Description Framework (RDF)
- Lecture 27 - The Event Calculus
- Lecture 28 - Natural Language Semantics
- Lecture 29 - CD Theory

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- Lecture 30 - CD Theory (Continued...)
- Lecture 31 - English to CD Theory
- Lecture 32 - Backward Chaining
- Lecture 33 - Logic Programming
- Lecture 34 - Prolog
- Lecture 35 - Search in Prolog
- Lecture 36 - Controlling Search
- Lecture 37 - The Cut Operator in Prolog
- Lecture 38 - Incompleteness
- Lecture 39 - The Resolution Method for FOL
- Lecture 40 - Clause Form
- Lecture 41 - FOL with Equality
- Lecture 42 - Complexity of Resolution Refutation
- Lecture 43 - Semantic Nets and Frames
- Lecture 44 - Scripts
- Lecture 45 - Applying Scripts
- Lecture 46 - Goals, Plans and Actions
- Lecture 47 - Plan Applier Mechanism
- Lecture 48 - Top Down and Bottom Up Reasoning
- Lecture 49 - Introduction
- Lecture 50 - Normalisation
- Lecture 51 - Structure Matching
- Lecture 52 - Structure Matching - Example
- Lecture 53 - Classification
- Lecture 54 - A-box reasoning
- Lecture 55 - DL
- Lecture 56 - DL
- Lecture 57 - ALC examples
- Lecture 58 - Taxonomies and Inheritance
- Lecture 59 - Beliefs
- Lecture 60 - Inheritance Hierarchies
- Lecture 61 - Introduction
- Lecture 62 - Circumscription
- Lecture 63 - Circumscription (Continued...)
- Lecture 64 - Minimal Models
- Lecture 65 - Event Calculus Revisited
- Lecture 66 - Circumscription in EC
- Lecture 67 - Default Logic
- Lecture 68 - Autoepistemic Logic

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Lecture 69 - Epistemic Logic

Lecture 70 - The Muddy Children Puzzle