

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

NPTEL Video Course - Computer Science and Engineering - Natural Language Processing

Subject Co-ordinator - Prof. Pushpak Bhattacharya

Co-ordinating Institute - IIT - Bombay

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

- Lecture 1 - Introduction
- Lecture 2 - Stages of NLP
- Lecture 3 - Stages of NLP Continue...
- Lecture 4 - Two approaches to NLP
- Lecture 5 - Sequence Labelling and Noisy Channel
- Lecture 6 - Noisy Channel
- Lecture 7 - Argmax Based Computation
- Lecture 8 - Noisy Channel Application to NLP
- Lecture 9 - Brief on Probabilistic Parsing & Start of Part of Speech Tagging
- Lecture 10 - Part of Speech Tagging
- Lecture 11 - Part of Speech Tagging counted ...
- Lecture 12 - Part of Speech Tagging counted ... and Indian Language in Focus; Morphology Analysis
- Lecture 13 - PoS Tagging contd... , Indian Language Consideration; Accuracy Measure
- Lecture 14 - PoS Tagging; Fundamental Principle; Why Challenging; accuracy
- Lecture 15 - PoS Tagging; Accuracy Measurement; Word categories
- Lecture 16 - AI and Probability; HMM
- Lecture 17 - HMM
- Lecture 18 - HMM, Viterbi, Forward Backward Algorithm
- Lecture 19 - HMM, Viterbi, Forward Backward Algorithm (Continued...)
- Lecture 20 - HMM, Forward Backward Algorithms, Baum Welch Algorithm
- Lecture 21 - HMM, Forward Backward Algorithms, Baum Welch Algorithm (Continued...)
- Lecture 22 - Natural Language Processing and Informational Retrieval
- Lecture 23 - CLIA; IR Basics
- Lecture 24 - IR Models
- Lecture 25 - IR Models
- Lecture 26 - NLP and IR
- Lecture 27 - Least Square Method; Recap of PCA; Towards Latent Semantic Indexing (LSI)
- Lecture 28 - PCA; SVD; Towards Latent Semantic Indexing (LSI)
- Lecture 29 - Wordnet and Word Sense Disambiguation

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- Lecture 30 - Wordnet and Word Sense Disambiguation (Continued...)
- Lecture 31 - Wordnet; Metonymy and Word Sense Disambiguation
- Lecture 32 - Word Sense Disambiguation
- Lecture 33 - Word Sense Disambiguation; Overlap Based Method; Supervised Method
- Lecture 34 - Word Sense Disambiguation
- Lecture 35 - Word Sense Disambiguation
- Lecture 36 - Resource Constrained WSD; Parsing
- Lecture 37 - Parsing
- Lecture 38 - Parsing Algorithm
- Lecture 39 - Parsing Ambiguous Sentences; Probabilistic Parsing
- Lecture 40 - Probabilistic Parsing Algorithms