

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

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

Subject Co-ordinator - Prof. Pawan Goyal

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Introduction to the Course
- Lecture 2 - What Do We Do in NLP
- Lecture 3 - Why is NLP hard
- Lecture 4 - Empirical Laws
- Lecture 5 - Text Processing
- Lecture 6 - Spelling Correction
- Lecture 7 - Weighted Edit Distance, Other Variations
- Lecture 8 - Noisy Channel Model for Spelling Correction
- Lecture 9 - N-Gram Language Models
- Lecture 10 - Evaluation of Language Models, Basic Smoothing
- Lecture 11 - Tutorial I
- Lecture 12 - Language Modeling
- Lecture 13 - Computational Morphology
- Lecture 14 - Finite - State Methods for Morphology
- Lecture 15 - Introduction to POS Tagging
- Lecture 16 - Hidden Markov Models for POS Tagging
- Lecture 17 - Viterbi Decoding for HMM, Parameter Learning
- Lecture 18 - Baum Welch Algorithm
- Lecture 19 - Maximum Entropy Models - I
- Lecture 20 - Maximum Entropy Models - II
- Lecture 21 - Conditional Random Fields
- Lecture 22 - Syntax - Introduction
- Lecture 23 - Syntax - Parsing I
- Lecture 24 - Syntax - CKY, PCFGs
- Lecture 25 - PCFGs - Inside-Outside Probabilities
- Lecture 26 - Inside-Outside Probabilities
- Lecture 27 - Dependency Grammars and Parsing - Introduction
- Lecture 28 - Transition Based Parsing
- Lecture 29 - Transition Based Parsing

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- Lecture 30 - MST-Based Dependency Parsing
- Lecture 31 - MST-Based Dependency Parsing
- Lecture 32 - Distributional Semantics - Introduction
- Lecture 33 - Distributional Models of Semantics
- Lecture 34 - Distributional Semantics
- Lecture 35 - Word Embeddings - Part I
- Lecture 36 - Word Embeddings - Part II
- Lecture 37 - Lexical Semantics
- Lecture 38 - Lexical Semantics - Wordnet
- Lecture 39 - Word Sense Disambiguation - I
- Lecture 40 - Word Sense Disambiguation - II
- Lecture 41 - Novel Word Sense detection
- Lecture 42 - Topic Models
- Lecture 43 - Latent Dirichlet Allocation
- Lecture 44 - Gibbs Sampling for LDA, Applications
- Lecture 45 - LDA Variants and Applications - I
- Lecture 46 - LDA Variants and Applications - II
- Lecture 47 - Entity Linking - I
- Lecture 48 - Entity Linking - II
- Lecture 49 - Information Extraction - Introduction
- Lecture 50 - Relation Extraction
- Lecture 51 - Distant Supervision
- Lecture 52 - Text Summarization - LEXRANK
- Lecture 53 - Optimization based Approaches for Summarization
- Lecture 54 - Summarization Evaluation
- Lecture 55 - Text Classification - I
- Lecture 56 - Text Classification - II
- Lecture 57 - Tutorial II
- Lecture 58 - Tutorial III
- Lecture 59 - Tutorial IV
- Lecture 60 - Tutorial V
- Lecture 61 - Sentiment Analysis - Introduction
- Lecture 62 - Sentiment Analysis - Affective Lexicons
- Lecture 63 - Learning Affective Lexicons
- Lecture 64 - Computing with Affective Lexicons
- Lecture 65 - Aspect - Based Sentiment Analysis