

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

NPTEL Video Course - Mathematics - Statistical Inference

Subject Co-ordinator - Prof. Somesh Kumar

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Introduction and Motivation
- Lecture 2 - Basic Concepts of Point Estimations - I
- Lecture 3 - Basic Concepts of Point Estimations - II
- Lecture 4 - Finding Estimators - I
- Lecture 5 - Finding Estimators - II
- Lecture 6 - Finding Estimators - III
- Lecture 7 - Properties of MLEs
- Lecture 8 - Lower Bounds for Variance - I
- Lecture 9 - Lower Bounds for Variance - II
- Lecture 10 - Lower Bounds for Variance - III
- Lecture 11 - Lower Bounds for Variance - IV
- Lecture 12 - Sufficiency
- Lecture 13 - Sufficiency and Information
- Lecture 14 - Minimal Sufficiency, Completeness
- Lecture 15 - UMVU Estimation, Ancillarity
- Lecture 16 - Invariance - I
- Lecture 17 - Invariance - II
- Lecture 18 - Bayes and Minimax Estimation - I
- Lecture 19 - Bayes and Minimax Estimation - II
- Lecture 20 - Bayes and Minimax Estimation - III
- Lecture 21 - Testing of Hypotheses
- Lecture 22 - Neyman Pearson Fundamental Lemma
- Lecture 23 - Applications of NP lemma
- Lecture 24 - UMP Tests
- Lecture 25 - UMP Tests (Continued.)
- Lecture 26 - UMP Unbiased Tests
- Lecture 27 - UMP Unbiased Tests (Continued.)
- Lecture 28 - UMP Unbiased Tests
- Lecture 29 - Unbiased Tests for Normal Populations

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- Lecture 30 - Unbiased Tests for Normal Populations (Continued.)
- Lecture 31 - Likelihood Ratio Tests - I
- Lecture 32 - Likelihood Ratio Tests - II
- Lecture 33 - Likelihood Ratio Tests - III
- Lecture 34 - Likelihood Ratio Tests - IV
- Lecture 35 - Invariant Tests
- Lecture 36 - Test for Goodness of Fit
- Lecture 37 - Sequential Procedure
- Lecture 38 - Sequential Procedure (Continued.)
- Lecture 39 - Confidence Intervals
- Lecture 40 - Confidence Intervals (Continued.)