Computer Age Statistical Inference (Summary by Pablo Vivas)

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- 1. Algorithms and Inference
- 2. Frequentist Inference
- 3. Bayesian Inference
- 4. Fisherian Inference and Maximum Likelihood Estimation
- 5. Parametric Models and Exponential Families
- 6. Empirical Bayes
- 7. James-Stein Estimation and Ridge Regression
- 8. Generalized Linear Models and Regression Trees
- 9. Survival Analysis and the EM Algorithm
- 10. The Jackknife and the Bootstrap
- 11. Bootstrap Confidence Intervals
- 12. Cross-Validation and C_p Estimates of Prediction Error
- 13. Objective Bayes Inference and MCMC
- 14. Postwar Statistical Inferenceand Methodology
- 15. Large-Scale Hypothesis Testing and FDRs
- 16. Sparse Modeling and the Lasso
- 17. Random Forests and Boosting
- 18. Neural Networks and Deep Learning
- 19. Support-Vector Machines and Kernel Methods
- 20. Inference After Model Selection
- 21. Empirical Bayes Estimation Strategies