

Annotated Bibliography

Contents

1 Computational Methods

1

1 Computational Methods

- The book provides a very nice introduction to some practical issues in optimization. It will be useful to revisit when we tackle computational aspects of structural model estimation.

Miscellaneous

- Heyman, D. P. and Sobel, M. J. (2003). *Stochastic Models in Operations Research, Vol. II: Stochastic Optimization*. Dover Publications, Mineola

This book contains a highly useful exposition of the expected utility theory and its use in operations research in Chapter 2. The chapter is available as a pdf.

- Smith, R. C. (2014). *Uncertainty Quantification: Theory, Implementation, and Applications*. SIAM-Society for Industrial and Applied Mathematics, Philadelphia

A highly readable introduction to uncertainty quantification.

- Huber, P. J. and Ronchetti, E. M. (2009). *Robust Statistics*. Wiley Series in Probability and Statistics. John Wiley & Sons, 1st edition

This is the foundational textbook for robust statistics. It defines robustness as insensitivity to small deviations from the assumptions. The book is primarily concerned with distributional robustness, i.e. the shape of the true underlying distribution deviates slightly from the assumed model. Another textbook introduction is provided by [Maronna et al. \(2006\)](#).

- Wise, D. A. (1985). A behavioral model versus experimentation: The effects of housing subsidies on rent. In Brucker, P. and Pauly, R., editors, *Methods of Operations Research*, volume 50, pages 441–489. Verlag Anton Hain, Frankfurt am Main, Germany, 1st edition

This paper is often cited in the context of validation a behavioral model using experimental data. However, the behavioral model itself is just very, very simple.

- Skiadas, C. (2009). *Asset Pricing Theory*. Princeton Series in Finance. Princeton University Press, Princeton, NJ, 1st edition

A textbook introduction to asset pricing, it is very nicely written and in particular Chapter 4 on risk aversion is a very good overview on the topic. Also, he always includes a lot of notes at the end of each chapter that are a very informative on the ongoing developments and discussions in the literature.

- Shafer, G. (1976). *A Mathematical Theory of Evidence*. Princeton University Press, Princeton, NJ, 1st edition

To be written over break ...

References

Heyman, D. P. and Sobel, M. J. (2003). *Stochastic Models in Operations Research, Vol. II: Stochastic Optimization*. Dover Publications, Mineola.

Huber, P. J. and Ronchetti, E. M. (2009). *Robust Statistics*. Wiley Series in Probability and Statistics. John Wiley & Sons, 1st edition.

Maronna, R. A., Martin, D. A., and Yohai, V. J. (2006). *Robust Statistics: Theory and Methods*. Wiley Series in Probability and Statistics. John Wiley & Sons.

Shafer, G. (1976). *A Mathematical Theory of Evidence*. Princeton University Press, Princeton, NJ, 1st edition.

Skiadas, C. (2009). *Asset Pricing Theory*. Princeton Series in Finance. Princeton University Press, Princeton, NJ, 1st edition.

Smith, R. C. (2014). *Uncertainty Quantification: Theory, Implementation, and Applications*. SIAM-Society for Industrial and Applied Mathematics, Philadelphia.

Wise, D. A. (1985). A behavioral model versus experimentation: The effects of housing subsidies on rent. In Brucker, P. and Pauly, R., editors, *Methods of Operations Research*, volume 50, pages 441–489. Verlag Anton Hain, Frankfurt am Main, Germany, 1st edition.