Book Reviews | Reseñas

STATISTICAL INFERENCE AS SEVERE TESTING. HOW TO GET BEYOND THE STATISTICS WARS

Deborah G. Mayo (2018)
Cambridge University Press
X-486 pages,

The book is concerned with giving a philosophical look to statistics, unveiling some of the usually scrambled basis of the battle between Bayesians and Frequentists. It presents a personal view on inferential statistics to contextualize her philosophy of inference, based on the rules derived from statistic theory, using well established methods . She organized "tours" to the so called "museum of statistical methods". The book deals with foundational problems appearing in statistical practice. Doing so, the author did a superb job in demystifying usually accepted myths. Among them, the effect of sample sizes in convergence issues. The oeuvre is biased to Bayesian principles. Unfortunately, as far as the statistics wars are concerned, it seems that Mayo's book is biased and supports the idea that methods using frequentist approaches are unsure. Bayesian alternatives presented are better. Using the principles of Neyman, Pearson, Fisher etc is somewhat demonized.
The book gives more fuel to the historic "cold war" between Bayesian inferential approach, and the frequentist´s one.
From my personal point of view you must be eclectic when solving real life problems. That is: use methods that are useful for problem solving without denying previously one or other approach. Being unconcerned with applications you may be orthodox, but do not project your feelings in teaching as mostly students will have jobs where they in must deal with real life problems.

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MATHEMATICAL OPTIMIZATION THEORY AND OPERATIONS RESEARCH 18TH INTERNATIONAL CONFERENCE, MOTOR 2019, EKATERINBURG, RUSSIA, JULY 8-12, 2019, PROCEEDINGS

Editors: Khacha**y**, Michael, Kochetov, Yury, Pardalos**,** Panos (2019)
Blackwell

This book presents the proceedings of the 18th International Conference on Mathematical Optimization Theory and Operations Research, which took pace in Ekaterinburg, Russia, in July 2019. It contains the 48 papers selected from 170 contributions. They are thematically organized in the following parts: mathematical programming; bi-level optimization; integer programming; combinatorial optimization; optimal control and approximation; data mining and computational geometry; games and mathematical economics. The readers will obtain a good source of results for developing further research.

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MODERN OPTIMIZATION METHODS FOR SCIENCE, ENGINEERING AND TECHNOLOGY - IOP EBOOKS

Editor: G. R Sinha (2019)

This book presents a collection of papers which provided nowadays results describing key concepts of optimization comprehensively and discuss how they have an impact in applications and implementation. Case and real life studies are presented and discussed. They pointed out new and current research lines. It will be useful for advanced students, professors of optimization and researchers working with practice. The papers presented large and motivating discussions on linear and non linear programming, , multicriteria and multi-objective procedures, nature motivated heuristics for optimization, topology optimization, etc. dealing with their performance both in theory and practice.

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