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MODERN ADVANCES IN STATISTICAL MODELING: BAYESIAN METHODS, COMPUTATIONAL STATISTICS, STATISTICAL LEARNING, AND UNCERTAINTY QUANTIFICATION

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ABOUT THE BOOK

This edited volume brings together original research, methodological advances, theoretical insights, and interdisciplinary applications in contemporary statistics. It covers Bayesian methods, computational and simulation-based statistics, statistical machine learning, high-dimensional analysis, nonparametric and semiparametric inference, time-series and spatial modeling, uncertainty quantification, and statistical optimization.

Emphasis is placed on emerging applications in artifial intelligence, engineering, finance, healthcare, and scientific research. The book aims to bridge theory and practice, showcase innovative tools for complex, data-intensive problems, and serve as a valuable reference for researchers, academicians, practitioners, and graduate students seeking current developments in statistical science.

EDITOR DETAILS

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IMPORTANT DATES

EVENT	DEADLINE
Chapter Submission Deadline	30-November-2026
Notification of Acceptance	Next day after submission
Final Chapter Submission	31-December-2026
Expected Publication Date	31-January-2027

MAJOR THEMES / TOPICS

- Bayesian statistical methods
- Computational and simulation-based statistics
- Statistical machine learning
- High-dimensional data analysis
- Nonparametric and semiparametric inference
- Time-series modeling
- Spatial statistics
- Uncertainty quantification
- Statistical optimization
- Emerging applications of statistical methods in artificial intelligence, engineering, finance, healthcare, and scientific research

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