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Nota di contenuto	Part I. Applied Statistics and Bayesian Modeling -- 1. Applied Bayesian Modeling for Assessment of Interpretation Uncertainty in Spatial Domain -- 2. Computing Robust Statistics via an EM Algorithm -- 3. Determining Risk Factors of Antenatal Care Attendance and its Frequency in Bangladesh: An Application of Count Regression Analysis -- 4. On Propensity Score Methodology -- 5. Asking Good Questions to Understand Voluntary Enrolments in Mathematics -- PART II. Agricultural Statistics and Policy Analysis -- 6. Modeling for Prospect of

Aman Rice Production in Dhaka Division, Bangladesh -- 7. Impacts and Determinants of Adoption in River-based Tilapia Cage Culture -- 8. Policy into Practice; Statistics the Forgotten Gatekeeper -- 9. Nutrient Loading in the River Systems around Major Cities in Bangladesh: a Quantitative Estimate with Consequences and Potential Recycling Options -- 10. Analysing Informal Milk Supply Chains Data to Identify Seasonal Occurrences of Antibiotic Residues -- Part III. Data Science and Image Processing Statistics -- 11. Detection of Vegetation in Enviromental Repeat Photography: A New Algorithmic Approach in Data Science -- 12. Can Data Fusion increase the Performance of Action Detection in the Dark? -- 13. Data privacy and Security in the Cloud -- 14. Evaluating Faster-RCNN and YOLOv3 for Target Detection in Multi-sensor Data -- 15. Wavelet-based Quantile Density Function Estimation under Random Censorship -- Part IV. Health Statistics and Social Policy -- 16. Factors Associated with Coronary Heart Disease among Elderly People in Different Communities -- 17. Finite Mixture Modelling Approach to Identify Factors Affecting Children ever Born for 15-49 Year Old Women in Asian Country -- 18. An Assessment of Influencing Factors for Motherhood During Childhood in Bangladesh Using Factor Analysis and Logistic Regression Methods -- 19. Effect of Women's Education on Skilled Birth Attendants in South and South East Asia: A Cross-country assessment on Sustainable Development Goal 3.1 -- Part V. SMALL Area Estimation and Spatial Microsimulation -- 20. Estimation of Child Undernutrition at Disaggregated Administrative Tiers of a North-Eastern District of Bangladesh: An Application of Small Area Estimation Method -- 21. Using a Spatial Farm Microsimulation Model for Australia to Estimate the Impact of an External Shock on Farmer Incomes -- Part VI. Business Analytics and Managements Policy Analysis -- 22. A tax benefit model for policy evaluation in Luxembourg: LuxTaxBen -- 23. Finding Significant Determinants and Impacts of Farm-Level Integrated Pest Management Practices Using Statistical Tools -- 24. Consumers Adoption Behavior Prediction through Technology Acceptance Model and Machine Learning Models -- 25. Shaping the Future of Multidimensional Project Management in Re-Tail Industry Using Statistical and Big-Data Theories -- 26. Technical Efficiency and Value Chain Analysis of Potato in a South-East Asian Country -- 27. Modelling and Analysis of Computer Experiments using a Simple Pendulum Model.

## Sommario/riassunto

This book brings together the best contributions of the Applied Statistics and Policy Analysis Conference 2019. Written by leading international experts in the field of statistics, data science and policy evaluation. This book explores the theme of effective policy methods through the use of big data, accurate estimates and modern computing tools and statistical modelling.