

The Current Index to Statistics (CIS) is a bibliographic index of publications in statistics, probability, and related fields.

How can researchers reliably infer individual-level behavior from aggregate (ecological) data? Harvard's Gary King lays out a unique and reliable solution to this venerable problem. Using an example situation, King unifies a set of diverse findings and arrives at a solution that includes over 16,000 comparisons. King's technique will enable empirical researchers to investigate substantive questions that have heretofore proved unanswerable.

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The theory underlying AP Statistics and Business Statistics courses is given with most formula derivations and proofs. The difficulty level gradually increases from graphical and numerical examples to full proofs supporting the one-way and two-way ANOVA. The material is carefully selected to provide statistical prerequisites to Econometrics taught at the University of London. The exposition is illustrated with more than 40 tables and more than 30 figures. The book has several innovative features: a) methodical recommendations to students, b) Monte Carlo simulations in Excel, c) the Markovitz portfolio theory, d) a separate chapter on links to Econometrics, and e) usage of statistical functions in Excel and Mathematica instead of statistical tables.

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Computational Science is the scientific discipline that aims at the development and understanding of new computational methods and techniques to model and simulate complex systems. The area of application includes natural systems - such as biology environmental and geo-sciences, physics, and chemistry - and synthetic systems such as electronics and financial and economic systems. The discipline is a bridge between 'classical' computer science - logic, complexity, architecture, algorithm- mathematics, and the use of computers in the aforementioned areas. The relevance for society stems from the numerous challenges that exist in the various science and engineering disciplines, which can be tackled by advances made in this field. For instance new models and methods to study environmental issues like the quality of air, water, and soil, and weather and climate predictions through simulations, as well as the simulation-supported development of cars, airplanes, and medical and transport systems etc. Paraphrasing R. Kenway (R.D. Kenway, Contemporary Physics. 1994): 'There is an important message to scientists, politicians, and industrialists: in the future science, the best industrial design and manufacture, the greatest medical progress, and the most accurate environmental monitoring and forecasting will be done by countries that most rapidly exploit the full potential of computational science'. Nowadays we have access to high-end computer architectures and a large range of computing environments, mainly as a consequence of the enormous stimulus from the various international programs on advanced computing, e.g.

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This book contains a selection of the best articles presented at the CUPUM (Computational Urban Planning and Urban Management) conference, held in the second week of July 2019 at the University of Wuhan, China. The chapters included were selected based on a double-blind review process involving external reviewers.

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Discussions of the different theoretical and empirical paradigms for setting and predicting exchange rates.

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