CIS Extended Database, 1993 Edition

Sponsored jointly by IMS and ASA
A Computer-Readable Bibliography of the Literature of Statistics and Probability
Based on the *Current Index to Statistics*, With Earlier Information for Selected Journals

When used with appropriate retrieval software, the database offers students, faculty, and staff at your site...

- Fast and easy literature searches based on author, title, or key words and phrases.
- Access to over 140,000 articles published in probability and statistics during the past 18 years.
- Covers 1965-1974 IMS annals, *JASA, Technometrics, Biometrics, Biometrica, Applied Statistics*.
- Printed lists of references retrieved.
- Freedom from long distance, connection time, and item retrieval charges.

The 1992 Edition is currently in use by more than 200 libraries, statistics and mathematics departments, government agencies, corporations, and individual members of IMS and ASA.

Total file length for the 1993 Edition is approximately 20 MB, supplied either (a) on eighteen 3.5" High Density disks in MS-DOS format or (b) on a CD-ROM readable by DOS, Macintosh, or UNIX systems. For copies of license agreements or additional technical information, contact the IMS Business Office.

PRICES

GENERAL LICENSE: *First Year, $700. Update from 1992 Edition, $180.* This license permits you to make the database available at your site through an unlimited number of stations (computers or terminals). Remote access is **not** permitted.

UNIVERSITY LICENSE: NEW FOR 1993! *First year, $700. Update from 1992 General License, $180.* This license permits you to make the database available to authorized password holders (current faculty, staff, or students) for use on or off campus. [Available to university campuses only.]

FOUR STATION LICENSE: *First Year, $350. Update from 1992 Edition, $105.* This license permits no more than four specified stations at an academic department or corporate research group. [No national government orders.]

PERSONAL LICENSE: *First Year or Update, $90.* This license permits the personal use by one individual IMS or ASA member (on up to three computers under the member's exclusive control). The license fee must be paid from personal funds and shipped to the member's home address.

Shipping Dates: Deliveries will begin in mid August. Sufficient copies will be manufactured for prompt shipment of orders received by July 15, 1993. Only 100 CD-ROMs will be manufactured. They will be available on a first-come, first served basis.

Articles

The Annals of Statistics

Articles

Stochastic Inequalities
Moshe Shaked and Y. L. Tong, Editors

Proceedings of the Joint AMS-IMS-SIAM Summer Research Conference on Stochastic Inequalities, Seattle, Washington, July 1991. The conference focused on the recent developments in the theory and applications of stochastic inequalities with special emphasis on convexity-related, majorization-related inequalities and stochastic convexity; dependence-related probability and moment inequalities; inequalities in multivariate distributions and multivariate analysis; inequalities in reliability theory and queuing theory; and, applications in business and economics, operations research, and other related fields. This volume is a collection of papers based on the lectures given at the conference.

Contents

Inequalities for rare events in time-reversible Markov chains I by D. J. Aldous & M. Brown; *Skewness and kurtosis orderings: An introduction* by B. C. Arnold & R. A. Groeneveld; *Stochastic inequalities for a redundancy enchancement to a series or parallel system* by P. J. Boland; *Some remarks on a notion of positive dependence, association, and unbiased testing* by A. Cohen & H. B. Sackrowitz; *Further aspects of the comparison of two groups of ranked objects by matching in pairs* by H. A. David & J. Liu; *Inequalities for the parameters lambda(F), mu(F) with applications in nonparametric statistics* by C. Dorado & M. Hollander; *Orderings arising from expected extremes, with an application* by P. J. Downey & R. S. Maier; *A group action on covariances with applications to the comparison of linear normal experiments* by M. L. Eaton; *The role of a module in the failure of a system* by E. El-Neweihi & J. Sethuraman; *Extreme order statistics for a sequence of dependent random variables* by J. Glaz; *Partitioning inequalities in probability and statistics* by T. P. Hill; *Matrix extremes and related stochastic bounds* by D. R. Jensen; *Generalized majorization orderings and applications* by H. Joe; *Multivariate majorization by positive combinations* by H. Joe & J. Verducci; *Covariance spaces for measures on polyhedral sets* by J. H. B. Kemperman & M. Skibinsky; *Hyperbolic-concave functions and Hardy-Littlewood maximal functions* by R. P. Kertz & U. Rosler; *Lower bounds on multivariate distributions with preassigned marginals* by S. Kotz & J. P. Seeger; *Dependence of stable random variables* by M.-L. Ting Lee, S. T. Rachev, & G. Samorodnitsky; *A multivariate stochastic ordering by the mixed descending factorial moments with applications* by C. Lefevre & P. Picard; *Allocation through stochastic Schur convexity and stochastic transposition increasingness* by L. Liyanage & J. George Shanthikumar; *Extremai problems for probability distributions: A general method and some examples* by L. Mattner; *Concentration inequalities for multivariate distributions II: Elliptically contoured distributions* by M. D. Perlman; *Inequalities on expectations based on the knowledge of multivariate moments* by A. Prekopa; *On FKG-type and permanental inequalities* by Y. Rinott & M. Saks; *Optimal stopping values and prophet inequalities for some dependent random variables* by Y. Rinott & E. Samuel-Cahn; *Some applications of monotone transformations in statistics* by A. R. Sampson; *Secretary problems as a source of benchmark bounds* by S. M. Samuels; *Comparison of experiments of some multivariate distributions with a common marginal* by M. Shaked & Y. L. Tong; *On the bias of the jackknife estimate of variance* by R. A. Vitale

Pages .... xvi+411
List price $40
IMS member price $24

Order prepaid from:
Institute of Mathematical Statistics
3401 Investment Boulevard, Suite 7
Hayward, California 94545 (USA)