Book Reviews

Grossmann, W., G. Pflug, and W. Wertz (eds.): *Probability and Statistical Inference*. D. Reidel, Dordrecht 1982, VII + 384 p., HFL 120.—

The volume "Probability and Statistical Inference" constitutes the Proceedings of the 2nd Pannonian Symposium on Mathematical Statistics, held in Bad Tatzmannsdorf, Austria, June 14–20, 1981. Besides contributions to the classical disciplines of Mathematical Statistics, which constitute the major part of the volume, it contains also papers (both applied and theoretical) on various other fields of stochastics.

All papers present new and interesting results and were refereed. It should be mentioned that the editors added a subject index which supports the readers orientation very helpfully. Since reviewing of the mathematical contents is impossible in view of the heterogeneity of the material the reviewer adds another index, summarizing authors names very roughly according to some key-words:

Estimation: Ghorai, J.K., and Susarla, V. (Wisconsin-Milwaukee), Grossmann, W. (Vienna), Klebanov, L.V., and Melamed, J.A. (USSR), Krzyzak, A., and Pawlak, M. (Wroclaw), Läuter, H. (GDR), Neuwirth, W. (Vienna), Pazman, A., and Volafova, J. (Bratislava), Pflug, G. Ch. (Vienna), Praskova, Z. (Prague), Rutkowski, L. (Czestochowa), Wertz, W. (Vienna),

Testing Hypotheses: Kosik, P., and Sarkadi, K. (Hungary), Niederreiter, H. (Vienna), Ronchetti, E. (Zurich),

Other statistics, incl. asymptotics: Bednarski, S., Knot, S., and Ledwina, T. (Wroclaw), Bod, P. (Budapest), Huskova, M., and Rättinger, T. (Prague), Husty, J. (Prague), Lesanovsky, A. (Prague), Polasek, W. (Vienna),

Simulation: Dutter, R., and Ganster, I. (Graz), Rnsvhrdvu, F.M. (Bucharest), Stadlober, E. (Graz),

Stochastic processes, incl. Markov: Adler, J. (Vienna), Andel, J. (Prague), Bankovi, G. Veliczky, J., and Ziermann, M. (Hungary), Deheuvels, P. (Paris), Konecny, F. (Vienna), Kusolitsch, N. (Vienna),

Other probability and related fields: Nsn, I., and Pergel, J. (Hungary), Gerstenkorn, T. (Lodz), Moricz, F. (Szeged), Rachev, S.T. (Sofia), Syjan, S. (CSSR).

W. Sendler, Trier

Linder, A., and W. Berchthold: *Statistische Methoden III. Multivariate Verfahren*. UTB 1189 Birkhäuser, Basel–Boston–Stuttgart 1982. 218 p. DM 26.80.

Continuing the two books "Linder and Berchthold: Elementare statistische Methoden" same series Nr. 796 (which was later defined to be "Statistische Methoden I") and Linder/Berchthold "Statistische Methoden II", this volume is the final one of this three-volumes introduction into practical statistical methods for non-specialists but users of statistical methodology in different fields of applications. It contains the treatment of multivariate methods: correlation, one- and two-sample-problems, principal components (the only case of factor analysis, which is called less in use in non-psychiatric fields and "umstritten"), discriminancy, multivariate analysis of variance (simple and two-stage), regression and canonical correlation. The last chapter refers to "analysis of correspondences" (Korrespondenzanalyse) which introduces as well methods of discriminances as regression into the analysis of the contingency-tables. References to literature, names and items conclude this useful book, which is written in the same style as the two beginning books of the serie and is well illustrated and accompanied by examples from different fields of applications.

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