

Citations

From References: 2

From Reviews: 0

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[Le Roux, Brigitte](#) (F-PARIS5-LAM); [Rouanet, Henry](#) (F-PARIS5-CRI)

★Geometric data analysis.

From correspondence analysis to structured data analysis.

With a foreword by Patrick Suppes.

Kluwer Academic Publishers, Boston, MA, 2004. *xii+475 pp.* \$171.00.

ISBN 1-4020-2235-2

Geometric data analysis (GDA) is the name suggested by P. Suppes to designate the approach to multivariate statistics initiated by Benzécri as correspondence analysis, an approach that has become more and more used and appreciated over the years. The book under review meets the following two requirements: first, it presents in full the formalization of GDA in terms of the structures of linear algebra, which is an essential part of the mathematical foundations; and second, it shows how conventional statistical methods are applicable to structured data analysis, i.e., analysis of variance and statistical inference, can be used in conjunction with GDA.

The book consists of the following 10 chapters: 1. Overview of geometric data analysis; 2. Correspondence analysis; 3. Euclidean cloud; 4. Principal component analysis; 5. Multiple correspondence analysis; 6. Structured data analysis; 7. Stability of a Euclidean cloud; 8. Inductive data analysis; 9. Research case studies; 10. Mathematical bases.

The book is accessible to a wide audience of practising scientists. The mathematical framework is carefully explained. It is an important and much needed contribution to the statistical use of geometric ideas in the description and analysis of scientific data.

Wojciech Zieliński