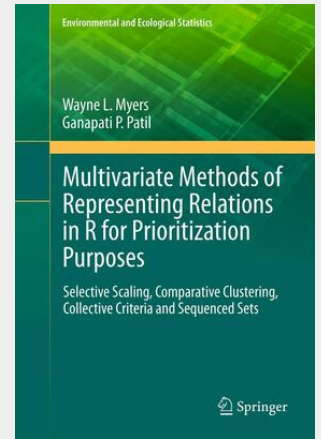


Multivariate Methods of Representing Relations in R for Prioritization Purposes

Selective Scaling, Comparative Clustering, Collective Criteria and Sequenced Sets

This monograph is multivariate, multi-perspective and multipurpose. We intend to be innovatively integrative through statistical synthesis. Innovation requires capacity to operate in ways that are not ordinary, which means that conventional computations and generic graphics will not meet the needs of an adaptive approach. Flexible formulation and special schematics are essential elements that must be manageable and economical.

This monograph is a four-fold featuring of adaptive analysis. · First is data distillation and comparative coupling whereby the results of one analysis are fed forward into another analysis without necessarily returning directly to the original data matrix, and analytical avenues usually seen as alternatives are pursued in parallel with results being carried forward together as complementary comparatives. · Second is the flexibility and suitability of the R® statistical software system for engaging in such adaptive and conjunctive statistical strategies. The intention is to provide an extensive entry into the realms of R using exploration by example whereby a demonstrative dataset of manageably moderate size is carried comparatively through the sequence of sections. · Third is a major mission to introduce innovative methodologies for preliminary and/or partial prioritization that arise from partial order theory. We formulate functions in R that provide for generation and visualization of partial orderings based on combinations of criteria. These methods support etiological exploration for explanations that underlie apparent concurrence or conflict among multiple indicators of suitability or severity. Fourth is delving more deeply into some multivariate methods such as principal components using the matrix methods available in R. R makes highly compact calls available for several such multivariate methods, but sometimes discernment demands delving into details.



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