Samuel Shye, *Multiple Scaling: The Theory and Application of Partial Order Scalogram Analysis*, Amsterdam: North-Holland, 1985, pp. xvii – 377.

Excerpts from Reviews

"This is a well-written, well-structured book written by an expert in the field … The author's style is clear and he writes with enthusiasm and conviction … the verbal exposition of new material is both meticulous and clear and is further illuminated by worked examples … I found the book absorbing reading and … would vote it a success.

… the central aim of POSA-like methods is to obtain a perfect representation of this partial order [on observed profiles] in a minimal space … A related, indeed dual, aim is to obtain minimal representation of the order relations among these between-test similarities. This can be attempted separately … or, as the author clearly prefers, in a more integrated way by an interplay between a partial order scalogram analysis (using the POSAC program) and a lattice space analysis (the LSA-1 and LSA-2 programs). The key idea of LSA is to map the tests into a space in accordance with the role that they play in structuring the scalogram … The relation between the profile and test spaces … is a fascinating nonmetric generalization of the classical duality between row and column spaces … Theorems 9 to 11 … are impressive. The central one establishes that for a standard scalogram, the rank order among test similarities can be perfectly represented in the strong monotonicity sense in a city-block space of dimensionality at most two, whatever the number n of tests!"

F. Critchley in *J. of Classification*, 1988

"Shye's book is a major contribution to the scaling literature … There are a number of examples both in Shye's book and in recent literature using this technique … that demonstrate that the "interpretation" question must be considered one, if not *the* major selling point of Partial Order Scalogram Analysis approach (POSA). It can be proven that in "standard scalograms" exactly two ("polar") tests can be found which partition the POSA space … The remaining nonpolar tests further refine X_1 and X_2. Hence, the meaning of the axes is directly related to the tests and shows their respective roles in structuring the concept under investigation.

… Shye's book represents a rather comprehensive monograph on POSA. It succeeds to solve a set of technical questions … and brings all kinds of further questions into focus that could serve to stimulate a considerable number of these psychometrics. However, … the book can be understood by those who have very little mathematical background and/or those who are most interested in substantive research … In summary, psychometricians as well as substantive researchers would be well advised to familiarize themselves with the important ideas and data analytical ideas developed in Shye's book."

I.   Borg in *Psychometrika*, 1987

"The author has essentially committed the theory to a body of equations. I view these equations as representing an artificial intelligence solution to the problem … It is the logical discussion I found most important. The author has succeeded in pin-pointing some very nasty problems in scalogram analysis and then providing reasonable explications of the problems … I am convinced that these problems have never been addressed directly in the published literature … It is my opinion that this will be a definitive volume on multi-dimensional scalogram analysis … Clearly my evaluation of the book would be extremely positive."

Anonym. Reviewer, 1985