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Meta-type Analysis of Multiple Baseline Time Series Design Intervention Models for Dependent and Independent Series

A traditional meta-type analysis for multiple baseline series was developed in this study using robust methodology. The design matrices provided for two-phase (AB) design allow for change in level and change in slope between each phase and the subsequent phase. The robust procedures are similar to the parametric procedures except another norm in place of Euclidean norm is used. A Monte-Carlo study of the methods is provided. Validity of the procedures and power comparisons between the parametric and robust methods was investigated and the results are presented. Diagnostic procedures for the analysis of these data are also developed.