

# Rpubs by Jan

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## **mds project**

- Minimizing rStress using Majorization <http://rpubs.com/deleeuw/142619>
- Differentiability of rStress at a Local Minimum <http://rpubs.com/deleeuw/143341>
- Second Derivatives of rStress, with Applications <http://rpubs.com/deleeuw/143844>
- Full-dimensional Scaling <http://rpubs.com/deleeuw/146548>
- Inverse Multidimensional Scaling <http://rpubs.com/deleeuw/148292>
- Singularities and Zero Distances in Multidimensional Scaling <http://rpubs.com/deleeuw/153221>
- Minimizing qStress for small q <http://rpubs.com/deleeuw/160351>
- Pictures of Stress <http://rpubs.com/deleeuw/192385>
- Gower Rank <http://rpubs.com/deleeuw/187962>
- An Alternating Least Squares Approach to Squared Distance Scaling <http://rpubs.com/deleeuw/223506>
- Convergence Rate of ELEGANT Algorithms <http://rpubs.com/deleeuw/227793>
- Multidimensional Scaling with Anarchic Distances <http://rpubs.com/deleeuw/238109>
- Multidimensional Scaling with Upper Bounds <http://rpubs.com/deleeuw/239882>
- Multidimensional Scaling with Lower Bounds <http://rpubs.com/deleeuw/241619>
- Multidimensional Scaling with Distance Bounds <http://rpubs.com/deleeuw/242254>
- Shepard Non-metric Multidimensional Scaling <http://rpubs.com/deleeuw/243040>

## **gifi project**

These Rpubs anticipate updates of the CRAN aspect and homals packages.

- Aspect of Correlation Matrices <http://rpubs.com/deleeuw/83572>
- Homogeneity Analysis <http://rpubs.com/deleeuw/87298>
- Multiset Canonical Correlation Analysis <http://rpubs.com/deleeuw/126462>
- Croissants and Wedges in Multiple Correspondence Analysis <http://rpubs.com/deleeuw/133786>
- Factor Analysis as Matrix Decomposition and Approximation: I <http://rpubs.com/deleeuw/273692>

## **BRAS project**

These Rpubs are about general optimization techniques

- Block Relaxation as Majorization <http://rpubs.com/deleeuw/221060>

- Zangwill/Ostrowski Descent Algorithms <http://rpubs.com/deleeuw/223532>
- Derivatives of Low Rank PSD Approximation <http://rpubs.com/deleeuw/229752>
- Majorizing Cubics on Intervals <http://rpubs.com/deleeuw/234646>
- Discrete Minimax by Quadratic Majorization <http://rpubs.com/deleeuw/234837>
- Least Squares Solutions of Linear Inequality Systems <http://rpubs.com/deleeuw/237729>
- Quadratic Programming with Quadratic Constraints <http://rpubs.com/deleeuw/239135>
- Infeasible Primal-Dual Quadratic Programming with Box Constraints <http://rpubs.com/deleeuw/274616>

## auxiliaries/miscellaneous

These Rpubs describe .C() and .Fortran() interfaces to compiled C and Fortran routines useful in the gif and smacof projects.

- Regression with Linear Inequality Restrictions on Predicted Values <http://rpubs.com/deleeuw/78897>
- Exceedingly Simple B-spline Code <http://rpubs.com/deleeuw/79161>
- Exceedingly Simple Gram-Schmidt Code <http://rpubs.com/deleeuw/84866>
- Exceedingly Simple Isotone Regression with Ties <http://rpubs.com/deleeuw/144316>
- Exceedingly Simple Permutations and Combinations <http://rpubs.com/deleeuw/155024>
- In Praise of QR <http://rpubs.com/deleeuw/156981>
- APL in R <http://rpubs.com/deleeuw/158476>
- Exceedingly Simple Principal Pivot Transforms <http://rpubs.com/deleeuw/166869>
- Exceedingly Simple Sorting with Indices <http://rpubs.com/deleeuw/261074>
- Exceedingly Simple Monotone Regression <http://rpubs.com/deleeuw/262795>
- Exceedingly Simple Monotone Regression (with Ties) <http://rpubs.com/deleeuw/264597>
- Computing and Fitting Monotone Splines <http://rpubs.com/deleeuw/268327>