

Resumé

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Experience

- Numerical matrix decomposition, sparse matrix algebra, update techniques
- Numerical techniques for solving systems of (sparse) linear and nonlinear equations
- Eigenvalue and singular value decomposition techniques
- Nonlinear optimization techniques with (linear and nonlinear) inequality and equality constraints (also nonsmooth)
- Numerical techniques for statistical data analysis: nonlinear regression, robust regression, generalized linear models, maximum likelihood estimation, neural networks, factor analysis, rotation techniques, covariance structure analysis, multidimensional scaling, cluster analysis
- Numerical solution of partial differential equations (initial value and boundary value problems)
- Machine Learning: neural networks and support vector machines
- Language abilities in German, English, and Russian
(Publications in German, English, Russian, and Polish)
- Computer languages: C++, C, FORTRAN, UNIX, Windows NT, SAS, SPLUS, Matlab, and Tex

Scientific Degrees

- **Ph.D.:** Dr.sc.nat. from Academy of Science of East Berlin, 1980
- **Ph.D.:** Dr.rer.nat. from Technical University of Merseburg, 1972 (*magna cum laude*)
- **Masters:** Numerical Mathematics from Technical University of Dresden, 1970
- **Masters:** Engineering Pedagogics from Technical University of Dresden, 1970 (in conjunction with Masters in Numerical Mathematics)
- **Privatdozent:** Dept. of Mathematics at the Justus-Liebig University in Giessen in 1985

Employment

- 07/01/97-Present** Principal Developer at Department for Data Mining of SAS Institute Inc., Cary N.C., USA
- 05/01/86-06/31/97** Senior Research Statistician Statistics Research and Development at SAS Institute Inc., Cary N.C., USA
- 10/01/85-04/31/86** Guest Professor at the Dept. of Psychology and lectureship at the Dept. of Mathematics at the Justus Liebig University of Giessen (Federal Republic of Germany)
- 04/01/85-09/30/85** Professor in Numerical Mathematics at the Dept. of Mathematics and Geographics at the Catholic University of Eichstätt (Federal Republic of Germany)
- 01/01/85-03/31/85** Guest Professor at the Dept. of Psychology at the Justus Liebig University of Giessen (Federal Republic of Germany)
- 07/15/84-08/14/84** Guest Professor at the Dept. of Psychology at the Justus Liebig University of Giessen (Federal Republic of Germany)
- 05/27/83-06/14/84** Certified political prisoner in prisons of Dresden, Cottbus, and Chemnitz in East Germany
- 03/01/81-05/26/83** Prohibited to work as a scientist in East Germany, due to applications to emigrate to West Germany (to join the rest of the family)
- 01/01/73-02/28/81** Scientific Assistant at the Dept. of Sociology at the Academy of Science in East Berlin and Statistical Scientist at the Institute of Sociology and Social Politics at the Academy of Science of East Germany in East Berlin, Otto-Nuschke-Strasse
- 10/01/72-12/31/72** Prohibited to work as a scientist in East Germany, for political reasons (tried to cancel membership in states union)
- 03/01/72-09/30/72** Scientific Assistant at the Technical University of Dresden
- 01/01/1971-02/29/72** Scientific Assistant at the Technical University of Merseburg
- 09/01/1966-12/31/70** Mathematics student at the Technical University of Dresden

Activities

- 1995-present: Associate Editor: Journal of Statistical Software
<ftp://www.stat.ucla.edu/pub/journals/jss>
- 1996-Present: member American Statistical Association (ASA)
- 1986-Present: member Society for Industrial and Applied Mathematics (SIAM)
- 1986-Present: member Classification Society of North America (CSNA)

References Available on Request