

# Selected Publications of Götz Trenkler

## Monographs

1. Nichtparametrische Statistische Methoden (with H. Büning). De Gruyter, Berlin (1978; 2nd edn. 1994)
2. Biased Estimators in the Linear Regression Model. Mathematical Systems in Economics Vol. 58. Oelgeschlager, Gunn & Hain, Meisenheim and Cambridge, MA. (1981)
3. Data Analysis and Statistical Inference (with S. Schach). Festschrift in Honour of Friedhelm Eicker. Verlag Josef Eul, Bergisch Gladbach (1992)
4. Lexikon der populären Irrtümer (with W. Krämer). Eichborn Verlag, Frankfurt (1996)
5. Mathematik für Ökonomen im Hauptstudium (with H. Büning, P. Naeve and K.-H. Waldmann). Oldenbourg, München (2000)
6. Das neue Lexikon der populären Irrtümer (with W. Krämer and D. Krämer). Eichborn Verlag, Frankfurt (2000)
7. Mathematical Statistics with Applications in Biometry (with J. Kunert). A Festschrift in Honour of Siegfried Schach. Verlag Josef Eul, Bergisch Gladbach (2001)
8. Einführung in die Moderne Matrix-Algebra (with K. Schmidt). Springer, Berlin (1998; 2nd edn. 2006)

## Research Papers

1. On a New Method of Testing Statistical Hypotheses. Annals of the Institute of Statistical Mathematics A **28**, 371–384 (1976)
2. An Iteration Estimator for the Linear Model. COMPSTAT 1978, pp. 126–131. Physica, Wien (1978)
3. A New Class of Biased Estimators in the Linear Model. Allgemeines Statistisches Archiv **63**, 76–77 (1979)

4. Generalized Mean Squared Error Comparisons of Biased Regression Estimators. *Communications in Statistics A* **9**, 1247–1259 (1980)
5. Experimental Coronary Air Embolism. Assessment of Time Course of Myocardial Ischemia and the Protective Effect of Cardiopulmonary Bypass (with T. Stegmann et al.). *The Thoracic and Cardiovascular Surgeon* **28**, 141–149 (1980)
6. A Comparison of the Least-Squares-Estimator with Biased Alternatives (with D. Trenkler). *Operations Research Proceedings 1980*, pp. 218–227. Springer, Berlin (1981)
7. On a Generalized Iteration Estimator. In: Büning, H., Naeve, P. (eds.) *Computational Statistics*, pp. 315–335. De Gruyter, Berlin (1981)
8. Total Anomalous Pulmonary Venous Connection: Surgical Treatment in 35 Infants (with T. Stegmann et al.). *The Thoracic and Cardio-vascular Surgeon* **29**, 299–302 (1981)
9. Estimable Functions and Reduction of Mean Square Error (with D. Trenkler). In: Henn, R. et al. (eds.) *Methods of Operations Research* 44, pp. 225–234. Oelgeschlager, Gunn & Hain, Königstein and Cambridge, MA. (1981)
10. Partitions, Sufficiency and Undominated Families of Probability Measures. *Annals of the Institute of Statistical Mathematics* **34**, 151–160 (1982)
11. Therapeutic Measures in Experimental Coronary Air Embolism (with T. Stegmann, W. Daniel and H.G. Borst). *Langenbecks Archiv für Chirurgie* **357**, 213–214 (1982)
12. Mallows'  $C_p$  and Optimal Ridge Constants. In: Henn, R. et al. (eds.) *Methods of Operations Research* 46, pp. 157–166. Oelgeschlager, Gunn & Hain, Königstein and Cambridge, MA. (1983)
13. Biased Linear Estimators and Estimable Functions. *Scandinavian Journal of Statistics* **10**, 53–55 (1983)
14. On the Generalized Variance of Biased Estimators in the Linear Model. *Allgemeines Statistisches Archiv* **67**, 199–201 (1983)
15. A Note on Superiority Comparisons of Homogeneous Linear Estimators (with D. Trenkler). *Communications in Statistics A* **12**, 799–808 (1983)
16. Minimum Mean Square Error Ridge Estimation (with D. Trenkler). *Sankhya A* **46**, 94–101 (1984)
17. On the Euclidean Distance between Biased Estimators (with D. Trenkler). *Communications in Statistics A* **13**, 273–284 (1984)
18. A Simulation Study Comparing Some Biased Estimators in the Linear Model (with D. Trenkler). *Computational Statistics Quarterly* **1**, 45–60 (1984)
19. Some Further Remarks on Multicollinearity and the Minimax Conditions of the Bock Stein-like Estimator. *Econometrica* **52**, 1067–1069 (1984)
20. On the Performance of Biased Estimators in the Linear Regression Model with Correlated Errors. *Journal of Econometrics* **25**, 179–190 (1984)
21. On Heterogeneous Versions of the Best Linear and the Ridge Estimator (with P. Stahlecker). *Proceedings of the First International Tampere Seminar on Linear Models* (1983), 301–322 (1985)

22. Mean Square Error Matrix Comparisons of Estimators in Linear Regression. *Communications in Statistics A* **14**, 2495–2509 (1985)
23. Updating the Ridge Estimator when Additional Explanatory Variables or Observations are Available (with B. Schipp and D. Trenkler). *Computational Statistics Quarterly* **2**, 135–141 (1985)
24. Does Weak Consistency of an Estimator Imply Asymptotic Unbiasedness? *Statistica Neerlandica* **39**, 241–242 (1985)
25. Linear Constraints and the Efficiency of Combined Forecasts (with E.P. Liski). *Journal of Forecasting* **5**, 197–202 (1986)
26. Mean Square Error Matrix Comparisons between Mixed Estimators (with E. Freund). *Statistica* **46**, 493–501 (1986)
27. Mean Square Error Matrix Comparisons among Restricted Least Squares Estimators. *Sankhya A* **49**, 96–104 (1987)
28. Partial Minimax Estimation in Regression Analysis (with F. Hering and P. Stahlecker). *Statistica Neerlandica* **41**, 111–128 (1987)
29. Quasi Minimax Estimation in the Linear Regression Model (with P. Stahlecker). *Statistics* **18**, 219–226 (1987)
30. Minimax Estimation with Additional Linear Restrictions: A Simulation Study (with B. Schipp and P. Stahlecker). *Communications in Statistics B* **17**, 393–406 (1987)
31. Iterative Improvements of a Partial Minimax Estimator in Regression Analysis (with F. Hering, B. Schipp and P. Stahlecker). *Proceedings of the Second International Tampere Conference in Statistics*, pp. 679–690 (1987)
32. Some Remarks on a Ridge-Type-Estimator and Good Prior Means. *Communications in Statistics A* **17**, 4251–4256 (1988)
33. Full and Partial Minimax Estimation in Regression Analysis with Additional Linear Constraints (with P. Stahlecker). *Linear Algebra and its Applications* **111**, 279–292 (1988)
34. Mean Square Error Matrix Superiority of the Mixed Regression Estimator under Misspecification (with P. Wijekoon). *Statistica* **49**, 65–71 (1989)
35. Mean Square Error Matrix Superiority of Estimators under Linear Restrictions and Misspecification (with P. Wijekoon). *Economics Letters* **30**, 141–149 (1989)
36. Mean Square Error Matrix Improvements, Mean Square Error Matrix Improvements and Admissibility of Linear Estimators (with J.K. Baksalary and E.P. Liski). *Journal of Statistical Planning and Inference* **23**, 313–325 (1989)
37. A Curious Result on Least Squares Estimation in Linear Regression. *International Journal of Mathematical Education in Science and Technology* **20**, 475–476 (1989)
38. A Note on Generalized Ridge Estimators (with J.K. Baksalary and P. Pordzik). *Communications in Statistics A* **19**, 2871–2877 (1990)
39. Mean Square Error Matrix Comparisons of Optimal and Classical Predictors and Estimators in Linear Regression (with H. Toutenburg). *Computational Statistics and Data Analysis* **10**, 297–305 (1990)

40. Testing the Stability of Regression Coefficients using Recursive Residuals (with P. Michels). *Australian Journal of Statistics* **32**, 293–312 (1990)
41. Mean Squared Error Matrix Comparisons between Biased Estimators – An Overview of Recent Results (with H. Toutenburg). *Statistical Papers* **31**, 165–179 (1990)
42. Matrix Mean Square Error Comparisons Based on a Certain Covariance Structure (with G. Ihorst). *Communications in Statistics B* **19**, 1035–1043 (1990)
43. Linear and Ellipsoidal Restrictions in Linear Regression (with P. Stahlecker). *Statistics* **22**, 163–176 (1991)
44. Mean Square Error Matrix Comparisons between Biased Restricted Least Squares Estimators. *Sankhya A* **53**, 309–319 (1991)
45. Covariance Adjustment in Biased Estimation (with J.K. Baksalary). *Computational Statistics & Data Analysis* **12**, 221–230 (1991)
46. Nonnegative and Positive Definiteness of Matrices Modified by two Matrices of Rank one (with J.K. Baksalary). *Linear Algebra and its Applications* **151**, 169–184 (1991)
47. Computation of Expectation and Variance for the Binomial Distribution (with H. Knautz, in German). *Praxis der Mathematik* **33**, 24 (1991)
48. Dürer, Moore-Penrose, Drazin ... (with H. Knautz, in German). *Praxis der Mathematik* **33**, 183–184 (1991)
49. A Matrix Equation (with B. Schipp). *Econometric Theory* **7**, 422–423 (1991)
50. On the MSE-Matrix Comparisons of Vector-Valued Estimators. *Statistica Neerlandica* **45**, 343 (1991)
51. Proxy Variables and Mean Square Error Dominance in Linear Regression (with H. Toutenburg). *Journal of Quantitative Economics* **8**, 443–442 (1992)
52. Pre-test Estimation in the Linear Regression Model with Competing Linear Constraints (with H. Hessenius). *Statistica* **52**, 17–31 (1992)
53. Some Further Results on Hermitian Matrix Inequalities (with B. Schipp and J.K. Baksalary). *Linear Algebra and its Applications* **160**, 119–129 (1992)
54. Optimal Estimation Methods under Weakened Linear Restrictions in Regression (with E.P. Liski and H. Toutenburg). *Computational Statistics & Data Analysis* **14**, 527–536 (1992)
55. Pretest Procedures and Forecasting in the Regression Model under Restrictions (with H. Toutenburg). *Journal of Statistical Planning and Inference* **30**, 249–256 (1992)
56. Nonlinear Unbiased Estimation in Linear Models (with S. Gnot, H. Knautz and R. Zmyslony). *Statistics* **23**, 5–16 (1992)
57. A Note on the Expected Value of a Moore-Penrose Inverse (with H. Knautz). *International Journal of Mathematical Education in Science and Technology* **23**, 155 (1992)
58. On Convexity of Certain Classes of Estimators. In: Trenkler, G., Schach, S. (eds.) *Data Analysis and Statistical Inference, Festschrift in Honour of Friedhelm Eicker*, pp. 83–90. Verlag Josef Eul, Bergisch Gladbach (1992)
59. Dropping Variables Versus Use of Proxy Variables in Linear Regression (with P. Stahlecker). *Journal of Statistical Planning and Inference* **50**, 65–75 (1993)

60. Minimum Mean Square Error Estimation in Linear Regression (with E.P. Liski and H. Toutenburg). *Journal of Statistical Planning and Inference* **37**, 203–214 (1993)
61. Some Further Results on the Use of Proxy Variables in Prediction (with P. Stahlecker). *The Review of Economics and Statistics* **75**, 707–711 (1993)
62. MSE-Improvement of the Least Squares Estimator by Dropping Variables (with E.P. Liski). *Metrika* **40**, 263–269 (1993)
63. A Note on Comparing Stochastically Restricted Estimators in a Regression Model. *Biometrical Journal* **35**, 125–128 (1993)
64. Minimax Estimation in Linear Regression with Singular Covariance Structure and Convex Polyhedral Constraints (with P. Stahlecker). *Journal of Statistical Planning and Inference* **36**, 185–196 (1993)
65. Leverage and Cochran-Orcutt Estimation in Linear Regression (with D. Stemann). *Communications in Statistics A* **22**, 1315–1333 (1993)
66. MSE-Matrix Superiority of the Mixed over the Least Squares Estimator in the Presence of Outliers (with G. Ihorst). *Communications in Statistics A* **22**, 1865–1877 (1993)
67. On the Correlation between  $\bar{X}$  and  $S^2$  (with H. Knautz). *Statistics & Probability Letters* **16**, 235–237 (1993)
68. A Note on the Correlation between  $S^2$  and the Least Squares Estimator in the Linear Regression Model (with H. Knautz). *Statistical Papers* **34**, 237–246 (1993). Corrigendum: *Statistical Papers* **35**, 42 (1994)
69. Characterizations of Oblique and Orthogonal Projectors. In: Calinski, T., Kala, R. (eds.) *Proceedings of the International Conference on Linear Statistical Inference, LINSTAT 93*, pp. 255–270. Kluwer, Dordrecht (1994)
70. Using Nonnegative Minimum Biased Quadratic Estimation for Variable Selection in the Linear Regression Model (with S. Gnot and H. Knautz). In: Calinski, T., Kala, R. (eds.) *Proceedings of the International Conference on Linear Statistical Inference, LINSTAT 93*, pp. 65–71. Kluwer, Dordrecht (1994)
71. Admissible Nonnegative Invariant Quadratic Estimation in Linear Models with Two Variance Components (with S. Gnot and D. Stemann). In: Calinski, T., Kala, R. (eds.) *Proceedings of the International Conference on Linear Statistical Inference, LINSTAT 93*, pp. 129–137. Kluwer, Dordrecht (1994)
72. Singular Magic Squares. *International Journal of Mathematical Education in Science and Technology* **25**, 595–597 (1994)
73. Pre-test Estimation in the Linear Regression Model with Competing Restrictions (with P. Pordzik). *Linear Algebra and its Applications* **210**, 123–137 (1994)
74. On the Information Loss of the Cochran-Orcutt-Estimation Procedure (with D. Stemann). *Journal of Quantitative Economics* **10**, 227–234 (1994)
75. On the Moore-Penrose Inverse of a Completely Symmetric Matrix. *Journal of Statistical Computation and Simulation* **49**, 230–231 (1994)
76. A Matrix Formulation on How Deviant an Observation Can Be. *The American Statistician* **48**, 60–61 (1994)

77. Assessing Coverage-Probabilities for Approximate Minimax Estimators with Respect to Interval Restrictions (with B. Schipp and P. Stahlecker). *Journal of Statistical Computation and Simulation* **50**, 59–74 (1994)
78. Improved Estimation by Weak Covariance Adjustment Technique (with G. Ihorst). *Discussiones Mathematicae* **15**, 189–201 (1995)
79. Mean Square Error Matrix Superiority of Empirical Bayes Estimators under Misspecification. *Test* **4**, 187–205 (1995)
80. Moore-Penrose Inverse of a Matrix Product with Normal Matrix. *Econometric Theory* **11**, 653–654 (1995)
81. Some Bounds for Bias and Variance of  $S^2$  under Dependence (with H. Knautz). *Scandinavian Journal of Statistics* **22**, 121–128 (1995)
82. Nonnegative Minimum Biased Quadratic Estimation in the Linear Regression Model (with S. Gnot and R. Zmyslony). *Journal of Multivariate Analysis* **54**, 113–125 (1995)
83. A New Characterization of Orthogonal Projectors (with S.-O. Troschke). *Elemente der Mathematik* **50**, 171 (1995)
84. The Common Mean, Non-Negative Definite Matrices and APL (with D. Trenkler). *Vector* **12**, 107–112 (1995)
85. An Objective Stability Criterion for Selecting the Biasing Parameter from the Ridge Trace (with D. Trenkler). *Industrial Mathematics* **45**, 93–104 (1995)
86. On the Singularity of the Sample Covariance Matrix. *Journal of Statistical Computation and Simulation* **52**, 172–173 (1995)
87. Estimation of Parameters in the Linear Regression Model with Equicorrelated Errors (with S. Gnot and D. Stemann). *International Conference on Statistical Methods and Statistical Computing for Quality and Productivity Improvement. Proceedings Volume*, pp. 624–631 (1995)
88. Pre-Test Estimation in the Linear Regression Model under Stochastic Restrictions (with P. Wijekoon). *Ceylon Journal of Science: Physical Sciences* **2**, 57–64 (1995)
89. The Bayes Estimator in a Misspecified Linear Regression Model. *Test* **5**, 113–123 (1996)
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92. Hypothesis Testing Using Affine Linear Estimators (with P. Stahlecker and H. Knautz). *Acta Applicandae Mathematicae* **43**, 153–158 (1996)
93. Prediction and the Choice Between Two Restricted Regression Models (with J. Groß). *Journal of Quantitative Economics* **12**, 125–131 (1996)
94. On the Least Squared Distance Between Affine Subspaces (with J. Groß). *Linear Algebra and its Applications* **237/238**, 269–276 (1996)
95. Records Tests for Trend in Location (with J. Diersen). *Statistics* **28**, 1–12 (1996)

96. A General Investigation of the Mean Square Error Matrix Superiority in Linear Regression (with G. Ihorst). *Statistica* **56**, 15–25 (1996)
97. MSE Comparisons of Restricted Least Squares Estimators in Linear Regression Model – Revisited (with P. Pordzik). *Sankhya B* **58**, 352–359 (1996)
98. Wozu braucht man Ökonometrie? *Prisma. Wochenmagazin zur Zeitung* **40**, 44 (1996)
99. On the Equality of OLSE and BLUE in a Partitioned Linear Model (with S. Puntanen and J. Groß). In: Manly, B.J.F. (ed.) *The Proceedings of the A.C. Aitken Centenary Conference*, pp. 143–152. University of Otago (1996)
100. When do Linear Transforms of Ordinary Least Squares and Gauss-Markov Estimator coincide? (with J. Groß) *Sankhya A* **59**, 175–178 (1997)
101. On Matrices Whose Moore-Penrose-Inverse is a Scalar Multiple of its Transpose (with S.-O. Troschke). *The Mathematical Gazette* **81**, 470–472 (1997)
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104. Restrictions and Projections in Linear Regression (with J. Groß). *International Journal of Mathematical Education in Science and Technology* **28**, 465–468 (1997)
105. Mean Square Error Matrix Properties of Bayes Estimation for Incorrect Prior Information under Misspecification (with L. Wei and S. Tamaschke). *Journal of the Italian Statistical Society* **6**, 273–284 (1997)
106. Four Square Roots of the Vector Cross Product. *The Mathematical Gazette* **82**, 100–102 (1998)
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109. Another Look at Cubes and Inverses of Magic Squares. *The Mathematical Gazette* **82**, 288–289 (1998)
110. Vector Equations and Their Solutions. *International Journal of Mathematical Education in Science and Technology* **29**, 455–459 (1998)
111. Necessary and Sufficient Conditions for Superiority of Misspecified Restricted Least Squares Regression Estimator (with E. Liski and J. Groß). *Journal of Statistical Planning and Inference* **71**, 109–116 (1998)
112. Using First Differences as a Device against Multicollinearity (with H. Toutenburg). In: Galata, R., Küchenhoff, H. (eds.) *Econometrics in Theory and Practice*, pp. 131–135. Physica, Heidelberg (1998)
113. Two Results on the Efficiency of the Almon Lag Technique. *Journal of Quantitative Economics* **14**, 17–22 (1998)
114. On the Exchangeability of Transformations and the Arithmetic Mean. *Journal of Statistical Computation and Simulation* **61**, 305–307 (1998)

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117. On Semi-Orthogonality and a Special Class of Matrices (with S.-O. Troschke and J. Groß). *Linear Algebra and its Applications* **289**, 169–182 (1999)
118. On Maximum Likelihood Estimators in Certain Multivariate Normal Mixed Models with Two Variance Components (with S. Gnot, D. Stemann and A. Urbánska-Motyka). *Tatra Mountains Mathematical Publications* **17**, 1–9 (1999)
119. A Remark on Prediction Problems in Regression Analysis. *Journal of Statistical Research* **33**, 67–70 (1999)
120. Nonsingularity of the Difference of Two Oblique Projectors (with J. Groß). *SIAM Journal on Matrix Analysis and Applications* **21**, 390–395 (1999)
121. On Properties of  $3 \times 3$  Semi-Magic Squares (with S.-O. Troschke and J. Groß). *International Journal of Mathematical Education in Science and Technology* **30**, 861–865 (1999)
122. Die einfache dritte Aufgabe. *Elemente der Mathematik* **54**, 38 (1999)
123. Some Further Results on the Efficiency of the Cochran-Orcutt Estimator (with D. Stemann). *Journal of Statistical Planning and Inference* **88**, 205–214 (2000)
124. Quaternions. Further Contributions to a Matrix Oriented Approach (with S.-O. Troschke and J. Groß). *Linear Algebra and its Applications* **326**, 205–213 (2000)
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  136. Third and fourth moment matrices of  $\text{vec}(X')$  in multivariate analysis (with H. Neudecker). *Linear Algebra and its Applications* **354**, 223–229 (2002)
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  144. A Multivariate Version of Samuelson’s Inequality (with S. Puntanen). *Linear Algebra and its Applications* **410**, 143–149 (2005)
  145. On Generalized Quadratic Matrices (with R.W. Farebrother). *Linear Algebra and its Applications* **410**, 244–253 (2005)
  146. Multivariate Data, the Arithmetic Mean and Exchangeability of Transformation (with E. Frauendorf and H. Neudecker). *Linear Algebra and its Applications* **410**, 87–95 (2005)
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151. Hadamard, Khatri-Rao, Kronecker and Other Matrix Products (with S. Liu). *International Journal of Information and Systems Science* **1**, 1–18 (2007)
152. On the Product of Rotations (with D. Trenkler). *International Journal of Mathematical Education in Science and Technology* **39**, 94–104 (2007)
153. Image Philatelic Corner reprise (with G.P.H. Styan). *Image* **38**, 9–12 (2007)
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Götz Trenkler is also an enthusiastic teacher. This is well documented by his numerous contributions to the Problems and Solutions Section of the following journals:

- American Mathematics Monthly
- Econometric Theory
- Elemente der Mathematik
- Image
- Mathematic Magazine
- Statistical Papers
- Statistica Neerlandica
- The College Mathematics Journal
- The Mathematical Gazette.