



Serving the International Linear Algebra Community

Issue Number 33, pp. 1-36, Fall 2004

Editor-in-Chief: Bryan L. Shader
 bshader@uwyo.edu
 Department of Mathematics
 Dept. 3036, 1000 E. University Avenue
 University of Wyoming
 Laramie, WY 82071, USA

Editor-in-Chief: Hans Joachim Werner
 ujuw902@uni-bonn.de
 Department of Statistics
 Faculty of Economics, University of Bonn
 Adenauerallee 24-42, D-53113 Bonn, Germany

Associate Editors: Jerzy K. Baksalary, Oskar Maria Baksalary, Stephen J. Kirkland, Steven J. Leon,
 Chi-Kwong Li, Simo Puntanen, Peter Šemrl & Fuzhen Zhang. *Editorial Assistant:* Jeanette Reisenburg

Editors-in-Chief: Robert C. Thompson (1988); Jane M. Day & R.C. Thompson (1989);
 Steven J. Leon & R.C. Thompson (1989-1993); Steven J. Leon (1993-1994); Steven J. Leon & George P.H. Styan (1994-1997);
 George P.H. Styan (1997-2000), George P.H. Styan & Hans J. Werner (2000-2003)

The Use of Linear Algebra by Web Search Engines (Amy N. Langville and Carl D. Meyer).....	2
Tidbits From Our Members	6
Further Early Statistical Applications of the Theory of Determinants (Richard William Farebrother).....	6
Two ILAS members recently honored.....	7
Report: 11 th ILAS Conference (João Queiró).....	9
Report: WONRA04 (Natália Bebiano).....	9
Report: Directions in Matrix Theory (Bryan Shader).....	11
Report: 13 th IWMS (Simo Puntanen)	11
Report: Hamilton Workshop on Nonnegative Matrix Theory (Avi Berman).....	13
Report: Southern California Matrix Theory (Jane Day and Wasin So).....	15
Book review “ <i>The Linear Algebra a Beginning Graduate Student Ought to Know</i> ” by Jonathan S. Golan (Sylvia Hobart)	16

Forthcoming Conferences and Workshops in Linear Algebra

14 th International Workshop on Matrices and Statistics	15
Brualdi-fest.....	17
Conference in honor of H. Radjavi’s 70 th birthday.....	17
Householder Symposium XVI.....	17
Second International Workshop on Combinatorial Scientific Computing.....	18
12 th ILAS Conference	20
International Workshop on Operator Theory and Applications.....	20

IMAGE Problem Corner: Old Problems, Many Solutions

23-1: The Expectation of the Determinant of a Random Matrix	22
30-3: Singularity of a Toeplitz Matrix.....	23
32-1: Factorizations of Nonsingular Matrices by Means of Corner Matrices.....	23
32-2: A Property of Plane Triangles – Eadem Mutata Resurgo	24
32-3: Jacobians for the Square-Root of a Positive Definite Matrix	25
32-4: A Property in $\mathbb{R}^{3 \times 3}$	26
32-5: Diagonal Matrices Solving a Matrix Equation.....	26
32-6: A Vector Cross Product Property in \mathbb{R}^3	27
32-7: Invariance of the Vector Cross Product.....	31

IMAGE Problem Corner: New Problems	36
---	----