$\left[egin{array}{cccc} \mathcal{I} & \mathcal{L} \ \mathcal{A} & \mathcal{S} \end{array}
ight]$

IMAGE

 $\left[egin{array}{cccc} \mathcal{I} & \mathcal{L} \ \mathcal{A} & \mathcal{S} \end{array}
ight]$

Serving the International Linear Algebra Community Issue Number 58, pp. 1–44, Spring 2017

Editor-in-Chief: Kevin N. Vander Meulen; kvanderm@redeemer.ca

Contributing Editors: Minerva Catral, Michael Cavers, Douglas Farenick, Carlos Fonseca,

Rajesh Pereira, David Strong, Naomi Shaked-Monderer, and Amy Wehe.

Advisory Editors: Jane Day, Steven Leon. Managing Editor: Louis Deaett.

Past Editors-in-Chief: Robert C. Thompson (1988); Jane M. Day & Robert 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); Bryan Shader & Hans J. Werner (2003–2006); Jane M. Dav & Hans J. Werner (2006–2008); Jane M. Dav (2008–2011). Feature Interviews "Luck, location, and leaves of absence" "An atmosphere full of unwavering support and encouragement" **Book Announcement** Exploiting Hidden Structure in Matrix Computations: Algorithms and Applications (Cetraro, Italy 2015), by Linear Algebra Education Conference Report Book Review Introduction to Linear Algebra, 5th Edition, by Gilbert Strang, Journal Announcement Obituary **Upcoming Conferences and Workshops** The 6th International Conference on Matrix Analysis and Applications (ICMAA 2017), Vietnam, June 15–18, 2017...25

| Preservers Everywhere, Hungary, June 19–23, 2017 |
|--|
| The Second Malta Conference in Graph Theory and Combinatorics (2MCGTC 2017), Malta, June 26–30, 201726 |
| Special Western Canada Linear Algebra Meeting honouring Peter Lancaster, Canada, July 7–9, 2017 |
| Rocky Mountain-Great Plains Graduate Research Workshop in Combinatorics |
| (GRWC 2017), USA, July 9–22, 201727 |
| Graduate Student Modeling Workshop (IMSM 2017), USA, July 16–26, 201727 |
| ILAS 2017: Connections |
| 30 th Birthday of ILAS, USA, July 24–28, 201727 |
| Preconditioning 2017 – International Conference on Preconditioning Techniques for Scientific and Industrial Applications, Canada, July 31–August 2, 2017 |
| Algebraic and Extremal Graph Theory Conference, USA, August 7–10, 2017 |
| Matrix Analysis and its Applications – A Special Session for PRIMA 2017, Mexico, August 14–18, 2017 |
| MAT-TRIAD'2017 - International Conference on Matrix Analysis and its Applications, Poland, September 25–29, 2017 |
| International Conference on Linear Algebra and its Applications, India, December 11–15, 201730 |
| SIAM Conference on Applied Linear Algebra (SIAM-ALA18), China, May 4–8, 2018 |
| |
| ILAS News |
| Honors for ILAS Members |
| ILAS Election Results31 |
| ILAS President/Vice President Annual Report: March 31, 2017 |
| ILAS 2016–2017 Treasurer's Report |
| |
| IMAGE Problem Corner: Old Problems with Solutions |
| Problem 56-2: Determinant of a Sum of Squares |
| Problem 56-5: Probability That a Large \mathbb{F}_q -Matrix is Singular |
| Problem 56-6: An Asymptotic Moment Property for Unitary Matrices |
| Problem 57-1: Perfect Condition Number |
| Problem 57-3: A PSD Matrix Decomposition |
| Problem 57-5: Eisenstein Circulant Matrices |
| Problem 57-6: A Commuting Matrix Problem |
| IMAGE Problem Corner: New Problems |
| Problem 58-1: Singular Value Decomposition of Involutory and Skew-Involutory Matrices |
| Problem 58-2: A Matrix Exponential Problem |
| Problem 58-3: Upper and Lower Bounds of Ranks of Matrices |
| Problem 58-4: Characteristic Polynomials of 3 by 3 Real Correlation Matrices |

About IMAGE

ISSN 1553-8991. Produced by the International Linear Algebra Society (ILAS). Two issues are published each year, on June 1 and December 1. The editors reserve the right to select and edit material submitted. All issues may be viewed at http://www.ilasic.org/IMAGE. IMAGE is typeset using LATEX. Photographs for this issue were obtained from websites referenced in articles, university department websites, or from reporters directly.

Advertisers: Contact Amy Wehe (awehe@fitchburgstate.edu).

Subscriptions: Contact ILAS Secretary-Treasurer Leslie Hogben (hogben@aimath.org) to subscribe or send a change of address for IMAGE. The cost to receive print copies of each issue of IMAGE, including ILAS membership, is \$60/year.

Editor-in-Chief: Kevin N. Vander Meulen, Department of Mathematics, Redeemer University College, Ancaster, ON, Canada, L9K 1J4 (kvanderm@redeemer.ca).

Managing Editor: Louis Deaett, Department of Mathematics, Quinnipiac University, Hamden, Connecticut 06518, USA. (Louis.Deaett@quinnipiac.edu).

Contributing Editors: Minerva Catral (catralm@xavier.edu), Michael Cavers (mcavers@ucalgary.ca), Douglas Farenick (Doug.Farenick@uregina.ca), Carlos Fonseca (carlos@sci.kuniv.edu.kw), Bojan Kuzma (bojan.kuzma@upr.si), Naomi Shaked-Monderer (nomi@tx.technion.ac.il), David M. Strong (David.Strong@pepperdine.edu), and Amy Wehe (awehe@fitchburgstate.edu).

For more information about ILAS, its journals, conferences, and how to join, visit http://www.ilasic.org.