# MAT-TRIAD 2007 - three days full of matrices <br> Będlewo, Poland, 22-24 March 2007 <br> http://mtriad07.amu.edu.pl/ 

Thursday, 22.03.2007

## 8:00 - 8:45 Breakfast <br> 8:45-Opening

## Session I Chair: SIMO PUNTANEN

9:00-9:40-L. Elsner: On Hessenberg matrices and their generalizations
9:45-10:05 - I. Gimenez: On singular and nonsingular H-matrices
10:05-10:25 - V. Kostić: New results on subdirect sums of $S$-strictly diagonally dominant matrices

## 10:25-10:40 - Coffee Break

## Session II Chair: CHARLES R. JOHNSON

10:40-11:20 - J.M. Peña: On bounds and localization results for the eigenvalues of structured matrices
11:25-11:45 - V. Cortés: Pivoting strategies and growth factor
11:45-12:00 - Coffee break
Session III Chair: SIEGFRIED RUMP
12:00-12:20 - M. Kovačević: Some invariants of Schur complement derived from scaling approach
12:20-12:40-B. Ricarte: The positive realization problem in normal transfer matrices with simple real poles
12:40-13:00-F. Pedroche: Characterization of $\alpha$-matrices
13:00 Lunch
Session IV Chair: LUDWIG ELSNER
15:00 - 15:40 - S. Rump: Toeplitz structured perturbations
15:45-16:05-D. von Rosen: Singular structured matrix with integer spectrum
16:05-16:20 - Coffee break
Session V Chair: TADEUSZ CALIŃSKI
16:20 - 16:40 - P. Druilhet: A statistical interpretation of Krylov subspaces decomposition
16:40-17:00 - M. Grzqdziel: On determinant maximization with linear matrix inequality constraints and REML estimators of variance components
17:00 - 17:20 - A. Michalski: On using generalized Cramer-Rao inequality to REML estimation in linear models

17:20-17:45 - Coffee Break

## Session VI Chair: FRIEDRICH PUKELSHEIM

17:45-18:25 - S. Puntanen: A conversation with Sujit Kumar Mitra in 1993 and some comments on his research publications
18:25-19:15 - G.P.H. Styan: A philatelic introduction to matrices and magic squares
19:30 Dinner

20:30 Concert

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Friday, 23.03.2007
8:00-9:00 Breakfast
Session VII Chair: GÖTZ TRENKLER
9:00-9:40-F. Pukelsheim: The European Parliament election in the Treaty on a Constitution for Europe: An electorate of degressive valencies
9:45-10:05 - P. Jiranek: On the limiting accuracy of segregated saddle point solvers
10.05-10.25-T. Ostrowski: On properties of special saddle point matrices

10:25-10:40 - Coffee Break
Session VIII Chair: ROMAN ZMYŚLONY
10:40-11:30 - D.A. Griffith: A numerical study of planar and near-planar adjacency matrices used in geographical analysis

## 11:35-11:50 - Coffee break

## Session IX Chair: DIETRICH VON ROSEN

11:50-12:30 - T. Klein: Loewner comparability of moment matrices in cubic mixture models
12:35-12:55-E. Liski: Model averaging for linear regression
13:00 Lunch
Session X Chair: HEIKE FABBENDER
15:00-15:20 - F. Blömeling: MLS model reduction for second-order time-invariant dynamical systems
15:20-15:40 - W. Tadej: Continuous affine families of unitary Hadamard matrices 15:40-16:00 - M. Ohlson: Distributions of quadratic forms

## 16:00-16:50 - Poster session:

R. Różański, A. Szczepańska, M. Beim, T. Kossowski

Session XI: Statistics and Linear Algebra in Practice
Chair: DANIEL A. GRIFFITH
16:50 - 17:10 - S. Galas (Glaxo): Responsible for evaluating process capability and implementing statistical methods in the Site
17:10-17:30 - H. Michalska (Glaxo): Responsible for measurement systems improvement and implementing Lean Manufacturing
17:30 - 18:00 - J. Jackowski (Glaxo): Six Sigma. What Employers Need Discussion

18:00-18:15 - Coffee break
18:15-18:40-A. Liski: A propensity score approach to comparing costs between hospital districts
18:40-19:05 - A. Dabrowski: Process monitoring based on multivariate statistical analysis
19:05-19:15 - Discussion
19:30 Conference Dinner - Banquet speaker: Simo Puntanen

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Saturday, 24.03.2007
8:00-9:00 Breakfast
Session XII Chair: LJILJANA CVETKOVIĆ
9:00 - 9:40 - C.R. Johnson: Possible Jordan Structures for A, B, and C, when $\mathrm{C}=\mathrm{AB}$
9:45-10:05 - Z. Woźnicki: The solution of continuous-time algebraic Riccati equations by means of the SOR-LIKE method
10:05-10:25 - D. Kubalińska: Interpolation based model reduction

## 10:25-10:40 - Coffee Break

## Session XIII Chair: GEORGE P.H. STYAN

10:40-11:20 - G. Trenkler: On the distance and the angle of subspaces
11:25-11:45-O.M. Baksalary: Further properties of a pair of orthogonal projectors

## 11:45-12:00 - Coffee break

Session XIV Chair: RAFAEL BRU
12:00-12:20 - A. Smoktunowicz: How and how not to compute the Moore-Penrose inverse
12:20-12:40 - I. Wróbel: Numerical ranges in a strip
12:40-13:00-K. Vehkalahti: Enhancing the documentation by leaving useful traces
13:00 Lunch
Session XV Chair: JUAN M. PEÑA
15:00-15:40 - R. Bru: On incomplete decompositions of inverses
15:45-16:05 - P. Batra: Infinite matrices - computable stability conditions for timedelay systems
16:05-16:25 - A. Suchocka: Incomplete alternating projection method for large inconsistent linear systems
16:25-16:40 - Coffee Break
Session XVI Chair: JOÃO T. MEXIA
16:40-17:20 - R. Zmyślony: Jordan algebra and statistical inference in linear mixed models
17:25-17:45-F. Carvalho: Canonic inference and commutative orthogonal block structures

17:45-18:00 - Coffee Break

## Session XVII Chair: ERKKI LISKI

18:00-18:40 - J.T. Mexia / M. Fonseca: Canonical forms for factorial and related models
18:45-19:05 - R. Covas: Lattices of commutative Jordan algebras, remarks and some applications
19:05-19:15 - Closing
19:30 Dinner - Prize ceremony

