

## Monday, June 6

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**09:00 – 09:20 Registration**

**09:20 – 09:30 Opening**

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### Plenary Session

Chair: S. Puntanen

09:30 – 10:10 J. Pan  
*Joint mean-covariance modelling and its R package: jmcm*

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**10:10 – 10:20 Pause**

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### Contributed Session I

Chair: I. Žežula

10:20 – 10:40 P. Song  
*Method of divide-and-combine in regularized regression for Big Data*

10:40 – 11:00 H. Drygas  
*Adding observations in regression analysis*

11:00 – 11:20 K. Vaňkátová  
*Clusterwise regression using mixtures of regression models*

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**11:20 – 11:40 Coffee break**

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### Minisymposium - Multivariate Linear Models

Chair: K. Filipiak

11:40 – 12:00 D. Klein  
*Testing mean under compound symmetry covariance setup*

12:00 – 12:20 I. Žežula  
*Comparison of estimators in a multivariate linear model with generalized uniform correlation structure*

12:20 – 12:40 M. Fonseca  
*Estimation for the growth curve model with orthogonal covariance structure*

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**12:40 – 14:10 Lunch**

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### Contributed Session II

Chair: R. A. Bailey

14:10 – 14:30 A. Markiewicz  
*Optimal circular neighbor designs under mixed interference models*

14:30 – 14:50 C. Francisco  
*Hadamard matrices on error detection and correction: Useful links to BIBD*

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**14:50 – 15:00 Pause**

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### Minisymposium - Estimation and Testing in Linear Models

Chair: R. Zmysłony

15:00 – 15:20 J. T. Mexia  
*Normal approximations to noncentral Wishart matrices*

15:20 – 15:40 J. S. Allison  
*Goodness-of-fit tests for semiparametric transformation models*

15:40 – 16:00 L. Santana  
*Goodness-of-fit tests for semiparametric and parametric hypotheses based on the probability weighted empirical characteristic function*

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**16:00 – 16:20 Coffee break**

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## Monday, June 6

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### Minisymposium - Magic Squares, Prime Numbers and Postage Stamps

This Minisymposium will take place at the Wine Madeira  
with Welcome Drink as part of the program

Chair: G. Styan

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|---------------|---|
| 16:20 – 16:40 | K. L. Chu<br><i>Se-tenant philatelic Machin-definitive blocks with selected total face-values, with special emphasis on the Royal Mail “Stamps for Cooks” Prestige Booklet</i>                                  |
| 16:40 – 17:00 | G. P. H. Styan<br><i>A sensational <math>7 \times 7</math> pandiagonal magic square with non-consecutive entries and “diamond-square arrangement” matrices for knight’s tours in a pandiagonal magic carpet</i> |
| 17:00 – 17:20 | K. L. Chu<br><i>Some comments on Margaret Kepner’s “Magic Square 25 Study” (2010)</i>   |
| 17:20 – 17:40 | G. P. H. Styan<br><i>Some comments on Sophie Germain prime numbers and on two philatelic magic-carpet dinner-placemats for the IWMS-2016 Madeira Magic Minisymposium</i>  |
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## Tuesday, June 7

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### Plenary Session

Chair:

09:30 – 10:10 A. Kovačec  
*The 123 theorem of probability theory and copositive matrices*

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**10:10 – 10:20** Pause

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### Minisymposium - Methods for Modelling Correlated and Complex Data

Chair: J. Pan

10:20 – 10:40 T. Nummi  
*Analysis of multivariate growth curves with smoothing splines*

10:40 – 11:00 L. Shi  
*Robust estimation in meta-regression analysis*

11:00 – 11:20 I. Ngaruye  
*Small Area Estimation for multivariate repeated measures data*

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**11:20 – 11:40** Coffee break

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### Minisymposium - Inequalities in Matrix Theory and Probability

Chair: A. Kovačec

11:40 – 12:00 K. Castillo  
*On some inequalities for eigenvalues of a special class of unitary matrices*

12:00 – 12:20 M. Mattila  
*Defining positive definite arithmetical functions and a partial order on the set of arithmetical functions by using matrix inequalities*

12:20 – 12:40 F. R. Rafaeli  
*Inequalities of zeros of classical orthogonal polynomials via Jacobi matrices*

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**12:40 – 14:10** Lunch

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### Plenary Session

Chair:

14:10 – 14:50 R. Kala  
*A new look at combining information from stratum submodels*

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**14:50 – 15:00** Pause

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### Minisymposium - Estimation and Testing in Linear Models

Chair: R. Zmyślony

15:00 – 15:20 R. Zmyślony  
*Application of Jordan algebra for statistical inference in multivariate normal models*

15:20 – 15:40 K. Filipiak  
*Estimation of parameters under a generalized growth curve model*

15:40 – 16:00 F. Carvalho  
*Best quadratic unbiased estimators for variance components in models with orthogonal block structure*

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**16:00 – 16:20** Coffee break

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### Contributed Session III

Chair:

16:20 – 16:40 C. Dias  
*Inference with  $\mathbf{vec}$  type operators*

16:40 – 17:00 A. C. Carapito  
*Lyapunov-Metzler inequalities with solutions sharing a common Schur complement*

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**17:00 – Poster session**

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## Wednesday, June 8

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### Plenary Session

Chair:

09:30 – 10:10     A. Agresti  
*Some perspectives about generalized linear modeling*

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**10:10 – 10:20     Pause**

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### Contributed Session IV

Chair:

10:20 – 10:40     S. Haslett  
*Parameter inestimability in hierarchical loglinear models for sparse contingency tables*

10:40 – 11:00     S. Puntanen  
*Linear sufficiency in the partitioned linear model*

11:00 – 11:20     Y. Tian  
*A new algebraic analysis of linear mixed models*

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**11:20 – 11:40     Coffee break**

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### Contributed Session V

Chair:

11:40 – 12:00     E. Fišerová  
*Conics and quadric surfaces fitting to correlated data*

12:00 – 12:20     C. Santos  
*On the extension of a balanced mixed model*

12:20 – 12:40     C. Nunes  
*Comparing for one-way fixed effects models the usual and the random sample sizes ANOVA*

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**12:40 – 14:10     Lunch**

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### 14:10 – Special Session

Session devoted to the 75<sup>th</sup> birthday of Professor Jeffrey J. Hunter

Chair: P. Taylor

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**16:00 – Excursion**

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**19:00 – Conference Dinner**

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## Thursday, June 9

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### Plenary Session

Chair:

09:30 – 10:10 R. A. Bailey  
*Association schemes in designed experiments*

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**10:10 – 10:20** Pause

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### Contributed Session VI

Chair:

10:20 – 10:40 D. Kokol Bukovšek  
*Seeking for a joint pmf given the sum of the marginal distributions*

10:40 – 11:00 C. Andrade  
*Statistical analysis in climate research: aridity conditions in the Iberian Peninsula - a case study*

11:00 – 11:20 M. F. Teodoro  
*Modeling the caregivers knowledge about pediatric hypertension*

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**11:20 – 11:40** Coffee break

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### 11:40 – Special Session

The Memorial Session of Ingram Olkin

Chair: H. J. Werner

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**13:00 – 14:10** Lunch

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### Contributed Session VII

Chair:

14:10 – 14:30 A. Correia  
*Confirmatory factor analysis for Entrepreneurial Framework Conditions*

14:30 – 14:50 R. Covas  
*Variance-covariance matrix estimation in double multivariate data with symmetric monotone missing values*

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**14:50 – 15:00** Closing

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