PLS'01 Scientific Programme

Sunday, September 30th

17:00 - 19:00	Registration Desk open at Capri Palace Hotel

19:00 Welcoming Cocktail

Monday, October 1st

8:00 - 8:30	Registration Desk open at Capri Palace Hotel
8:45 - 9:00	Opening Ceremony
9:00 - 10:30	Invited papers session 1
	PLS and Related Methods for Large Data Sets
	Nouna Kettaneh-Wold, Svante Wold
	PCA and PLS with Very Large Data Sets
	Bovas Abraham, Giovanni Merola
	Dimensionality Reduction Approach to Multivariate Prediction
10:30 - 11:00	Coffee Break

11:00 – 12:30 Invited papers session 2 Weighting Predictors and Objects and Signal Correction in PLS

Michele Forina, Eva M. Almansa Weighting Predictors and Objects in PLS

Sijmen de Jong (Direct) Orthogonal Signal Correction: Comparison of Old and New Algorithms

- 12:30 14:30 *Time for Lunch*
- 14:30 16:30Contributed papers session 1New PLS-based Methods and Algorithms

Vincenzo Esposito Vinzi, Michel Tenenhaus PLS Logistic Regression

Philippe Bastien, Michel Tenenhaus PLS Generalised Linear Regression: Application to the analysis of life time data

Cristian Preda, Gilbert Saporta PLS regression on a stochastic process

Michele Gallo Partial Least Squares for Compositional Data Baibing Li, Per A. Hassel, Elaine B. Martin, A. Julian Morris A Non-linear Nested PLS Algorithm

Ruy L. Milidiú, Raúl P. Rentería DPLS and PPLS: Two PLS Algorithms for Large Data Sets

16:30 – 17:00 *Coffee Break*

17:00 - 18:40Contributed papers session 2Topics related to Multivariate Analysis

E.M. Qannari, H. Nocairi, D. Bertrand, E. Vigneau *Discrimination and classification with multi-collinear data*

Vartan Choulakian Robust Multivariate Analysis Based on the Stahel-Donoho Outlyingness Measure

Joe Whittaker A Graphical View of Multivariate Statistics with reference to Financial Risk

Juan I. Modroño Herrán, Karmele Fernández Aguirre, M. Isabel Landaluce Calvo A Multivariate Two Step Method for Tables of Categorical

Variables

Letizia La Tona Jackknife Significance Tests on Scale Parameters of the L_p-norm Distributions

17:00 – 19:00 Contributed papers session 3 – <u>taking place in Sala Monte Solaro</u> PLS Industrial Applications

M.C. Ortiz, L.A. Sarabia, A. Herrero, M.S. Sánchez, M.B. Sanz,
M.E. Rueda, D. Giménez, M.E. Meléndez
Determination of Capability of Detection according to ISO Norm with Soft Calibration Methods

Qiang Liu, Huiwen Wang Variable Screening by Using Partial Least-Squares Analysis for Cutting Tool Wear Modeling

Aasmund Rinnan Alternative regression method to PLS on NMR-relaxation curves

Lopes J.A., Menezes J.C. Industrial Fermentation End-Product Modelling with Multilinear PLS

B.M. Beckwitt-Hall, J.T. Brindle, R. Barton, M. Coen, E. Holmes, J.K. Nicholson, H. Antti *Application of Orthogonal Signal Correction to Minimise the Effects of Physical and Biological Variation in High Resolution H NMR Spectra of Biofluids* C.L. Gavaghan, S.T. Hadfield, S. Hole, E. Holmes, P.W.A. Howe, P.D. Stanley, J.K. Nicholson *Application of NMR-Based Metabonomics to the Investigation of Salt Stress in Maize (Zea mays)*

Tuesday, October 2nd

9:00 - 10:30	Invited papers session 3
	PLS for the Analysis of Quality and Sensory Science Data
	Harald Martens, Magni Martens
	Multivariate Analysis of Quality
	Garmt Dijksterhuis, Harald Martens, Magni Martens
	GP-PLSR: An Integrated Technique for Analysing Sensory
	Science Data
10:30 - 11:00	Coffee Break
11:00 - 12:30	Invited papers session 4
	PLS Issues in Chemometrics
	D.L. Massart
	Diagnostics for Application of PLS in Multivariate Calibration
	For this talk, please refer to the following papers in the Proceedings:
	J.A. Fernández Pierna, L. Jin, M. Daszykowski, B. Walczak, F. Wahl, D.L. Massart
	Inhomogeneity Detection in Prediction with PLS

S. Gourvénec, J.A. Fernández Pierna, D.L. Massart, D.N. Rutledge

A comparison between PoLiSh-Smoothed PLS regression and Monte Carlo Cross-Validation

Øyvind Langsrud, Tormod Næs Optimised Score Plot by Principal Components of Predictions

12:30 – 14:30 *Time for Lunch*

14:30 – 16:10 Contributed papers session 4
 Validation, Variables Selection and Subspace Identification in PLS

Huiwen Wang, Qiang Liu, Yongping Tu Identification of Optimal Subspace from PLS Regression

L.A. Sarabia, M.C. Ortiz, M.S. Sánchez, A. Herrero Dimension-Wise Selection in Partial Least Squares Regression with a Bootstrap estimated Signal-Noise relation to Weight and Loadings

Martin Hoy, Harald Martens, Age Smilde Removing the Effect of Different Subspaces in Jack-knifed Estimates of PLSR Uncertainty

Silvano Amato, Vincenzo Esposito Vinzi Cross validated \hat{Q}_{kh}^2 bootstrap distribution estimate for the choice of significant components in Partial Least Squares Regression

Andrea R. Beccari, Benedetto Torrisi New Statistical Methodology for Variable Selection: a chemometric application 16:10 – 20:00 *Free Time*

20:00 Gala Dinner

Wednesday, October 3rd

9:00 - 10:30 Invited papers session 5 **Theoretical Aspects and Statistical Properties of PLS** Inge Helland Rotational Symmetry, Model Reduction and Optimality of Prediction from the PLS Population Model Aloke Phatak, Frank de Hoog PLS, Conjugate Gradients, and Lanczos Methods Coffee Break 10:30 - 11:0011:00 - 12:00Specialised Session on: **Multi-Block PLS Methods** Age K. Smilde, Johan A. Westerhuis A Framework for Multiblock Component Models Vibeke T. Povlsen, Connie Benfeldt Application of Multiblock PLSR in the Dairy Industry

Frans van den Berg Multi-Block PLSR models in Food Technology

12:00 – 13:00 Contributed papers session 5 Issues in PLS Approach

> So Young Sohn, Jeong Hoon Park Comparing PLS with ML in estimating structural equation model

Mohamed Hanafi Iterative Procedure of the PLS B estimation algorithm: two alternative convergent procedures

G. Vittadini, P.G. Lovaglio The estimate of latent variables in a structural model: an alternative approach to PLS

- 13:00 13:15 Closing Ceremony
- 13:15 15:00 *Time for Lunch*
- starting at 15:00 Guided Excursion