

PLS and Related Methods for cutting-edge Research in Experimental Sciences Methodological Advances and Challenging Applications

SUPELEC (Gif-sur-Yvette, France) 10-11 May 2010 9h30-18h00

10 May 2010

Day 1

9h30	Arrival of participants: Welcome Coffee & Croissants
9h50	Welcome address
Facing the Real World: Recent Advances and Critical Issues of PLS Methods ^{Chair:} Vincenzo Esposito Vinzi	
10h00-10h45	<u>Johan Trygg</u> (Institute of Chemistry - Umeå University, Sweden) Role of Chemometrics and PLS methods in Personalized medicine - Opportunities and methodological challenges to transform the delivery of healthcare
10h45-11h30	<u>Gilbert Saporta</u> (Chaire de Statistique appliquée - CEDRIC-CNAM, France) <i>PLS Regression for functional data</i>
11h30-12h15	<u>Anne Laure Boulesteix</u> (IBE - University of Munich, Germany) PLS for prediction with high-dimensional -omics data: overview and critical issues
12h15-14h00	Lunch (served at the SUPELEC Cantine)

SPARSE Partial Least Squares Regression

Chair: Arthur Tenenhaus

14h00-14h45	<u>Sunduz Keles</u> (University Of Wisconsin, USA) Sparse Partial Least Squares: Theory and Applications
14h45-15h30	<u>Kim-Anh Le Cao</u> (The University of Queensland, Australia) PLS extensions for integration and variable selection, application to high throughput biological data
15h30-16h00	<u>Edouard Duchesnay</u> (NEUROSPIN, CEA-Saclay Center, France) Bridging the gap between imaging and genetics with sparse PLS

16h00-16h30 Coffee Break

Further Topics in Causal Networks: Categorical Data and Bayesian Networks Chair: Laura Trinchera

- 16h30-17h10Giorgio Russolillo (Chaire de Statistique appliquée CEDRIC-CNAM, France)The Non-Metric Partial Least Squares Approach
- 17h10-17h50
 Lionel Jouffe (Bayesia, France)

 Probabilistic Structural Equations with Bayesian Belief Networks Principles and Applications





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Day 2

9h30 Arrival of participants: Welcome Coffee & Croissants

PLS Path Modeling as a General Framework for Multi-block Data Analysis Chair: Arthur Tenenhaus

10h00-10h45	<u>Michel Tenenhaus</u> (HEC Paris, France) A PLS approach to regularized generalized canonical correlation analysis
10h45-11h30	<u>Vincenzo Esposito Vinzi</u> (ESSEC Business School, France) Giorgio Russolillo (Chaire de Statistique appliquée - CEDRIC-CNAM, France) Laura Trinchera (SUPELEC, France) An integrated PLS Regression-based approach for multidimensional blocks in PLS Path Modeling
11h30-12h15	<u>Mohamed Hanafi</u> (ENITIAA-INRA, France) Some Computational Results related to PLS PM and Multiblock methods

12h15-14h00 Lunch (served at the SUPELEC Cantine)

Kernel Partial Least Squares

Chair: Michel Tenenhaus

14h00-14h45	<u>Nicole Kramer</u> (Weierstrass-Institute Berlin, Germany) Conjugate Gradient Regularization - a Statistical Framework for Partial Least Squares Regression				
14h45-15h30	<u>Arthur Tenenhaus</u> (SUPELEC, France) Kernel Generalized Canonical Correlation Analysis				
15h30-16h00	Coffee Break				
16h00-16h40	<u>Philippe Bastien</u> (L'Oréal Research, France) Some algorithmic aspects of PLS and Kernel PLS regression with extension to PLS Cox regression				
The PLS World in the XLSTAT Data Analysis Environment					
16h/0_17h10	Emmanuel Jakobowicz (XI STAT - Addinsoft France)				

16h40-17h10Emmanuel Jakobowicz (XLSTAT - Addinsoft, France)Advanced topics in PLS Path Modeling using XLSTAT

17h10 Closing address and see you in 2011 for the Workshop #5!!!





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for cutting-edge Research in Experimental Sciences

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REGISTRATION FORM

Last name		Title	
First name(s)		i i	
Institution/Company			
Street/P.O.Box			
Postal Code	City	Country	
Phone	I	Fax	
E-mail		i	

I will attend the PLS Workshop #4 at SUPELEC on **10-11 May 2010** (free)

□ I will have lunch at the "SUPELEC Cantine" (25.00 Euros to be paid on site) on 10 May

I will have lunch at the "SUPELEC Cantine" (25.00 Euros to be paid on site) on 11 May

□ I will not be able to attend this Workshop but I like to be informed on the next ones

Date _____

Signature _____

Please fill in and return this form to:

Dr. Laura TRINCHERA via e-mail (laura.trinchera@supelec.fr) or fax (+33 1 69 85 14 29) by no later than <u>26 APRIL 2010</u>

