

Preface

In 1999, the first meeting dedicated to partial least squares methods (abbreviated as PLS and also, sometimes, expanded as *projection to latent structures*) took place in Paris. Other meetings in this series took place in various cities all over the world, and in 2014, from the 26th to the 28th of May, the eighth meeting of the partial least squares (PLS) series returned to Paris to be hosted in the beautiful building of the Conservatoire National des Arts et Métiers (CNAM) under the double patronage of the Conservatoire National des Arts et Métiers and the ESSEC Paris Business School. This venue was again a superb success with more than 250 authors presenting more than one hundred papers during these 3 days. These contributions were all very impressive by their quality and by their breadth. They covered the multiple dimensions and facets of partial least squares-based methods, ranging from partial least squares regression and correlation to component-based path modeling, regularized regression, and subspace visualization. In addition, several of these papers presented exciting new theoretical developments. This diversity was also expressed in the large number of domains of application presented in these papers such as brain imaging, genomics, chemometrics, marketing, management, and information systems to name only a few.

After the conference, we decided that a large number of the papers presented in the meeting were of such an impressive high quality and originality that they deserved to be made available to a wider audience, and we asked the authors of the best papers if they would like to prepare a revised version of their paper. Most of the authors contacted shared our enthusiasm, and the papers that they submitted were then read and commented on by anonymous reviewers, revised, and finally edited for inclusion in this volume; in addition, Professor Takane (who could not join us for the meeting) accepted to contribute a chapter for this volume. These papers included in *The Multiple Facets of Partial Least Squares and Related Methods* provide a comprehensive overview of the current state of the most advanced research related to PLS and cover all domains of PLS and related domains.

Each paper was overviewed by one editor who took charge of having the paper reviewed and edited (Hervé was in charge of the papers of Beaton et al., Churchill et al., Cunningham et al., El Hadri and Hanafi, Eslami et al., Löfstedt et al., Takane

and Loisel, and Zhou et al.; Vincenzo was in charge of the paper of Kessous et al.; Giorgio was in charge of the papers of Boulesteix, Bry et al., Davino et al., and Cantaluppi and Boari; Gilbert was in charge of the papers of Blazère et al., Bühlmann, Lechuga et al., Magnanensi et al., and Wang and Huang; Laura was in charge of the papers of Aluja et al., Chin et al., Davino et al., Dolce et al., and Romano and Palumbo). The final production of the \LaTeX version of the book was mostly the work of Hervé, Giorgio, and Laura. We are also particularly grateful to our (anonymous) reviewers for their help and dedication.

Finally, this meeting would not have been possible without the generosity, help, and dedication of several persons, and we would like to specifically thank the members of the scientific committee: Michel Béra, Wynne Chin, Christian Derquenne, Alfred Hero, Heungsung Hwang, Nicole Kraemer, George Marcoulides, Tormod Næs, Mostafa Qannari, Michel Tenenhaus, and Huiwen Wang. We would like also to thank the members of the local organizing committee: Jean-Pierre Choulet, Anatoli Colicev, Christiane Guinot, Anne-Laure Hecquet, Emmanuel Jakobowicz, Ndeye Niang Keita, Béatrice Richard, Arthur Tenenhaus, and Samuel Vinet.

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