



# Vereniging voor Ordinatie en Classificatie / Dutch-Flemish Classification Society

Chairman: Jeroen Vermunt, Universiteit van Tilburg, Faculteit Sociale Wetenschappen, Departement Methoden en Technieken van Onderzoek, Postbus 90153, 5000 LE Tilburg, Nederland ([j.k.vermunt@uvt.nl](mailto:j.k.vermunt@uvt.nl))

Secretary: Katrijn Van Deun, KU Leuven, Faculteit Psychologie en Pedagogische Wetenschappen, Tiensestraat 102 bus 3713, B-3000 Leuven, België ([katrijn.vandeun@ppw.kuleuven.be](mailto:katrijn.vandeun@ppw.kuleuven.be))

Treasurer: Berrie Zielman, Algemene Rekenkamer, Directie Beleid en Communicatie, Afdeling Statistiek, Lange Voorhout 8, 2414 ED Den Haag, Nederland ([a.Zielman@rekenkamer.nl](mailto:a.Zielman@rekenkamer.nl))

IBAN: NL86 INGB 0000 161723 t.n.v. Vereniging voor Ordinatie en Classificatie, Doornenburg 84, 2261 XD Leidschendam.

Editor: Tom Wilderjans, KU Leuven, Faculteit Psychologie en Pedagogische Wetenschappen, Andreas Vesaliusstraat 2 bus 3762, B-3000 Leuven, België ([tom.wilderjans@ppw.kuleuven.be](mailto:tom.wilderjans@ppw.kuleuven.be))

home page: [www.voc.ac](http://www.voc.ac)

## THIRD VOC CONFERENCE MAY 9 LEIDEN

with Arthur Tenenhaus as keynote speaker,  
contributed papers by VOC members and  
a prize for the best student presentation

more information will be provided at  
[www.voc.ac](http://www.voc.ac)

### From the President

First of all, I would like to wish all of you a happy and productive 2014.

The year 2013 has been an excellent year for our society. In May we had our second new style VOC conference in Antwerpen, with a keynote by Stijn Vansteelandt and with three contributed paper sessions in which various of our members presented their current research. Because of its success, we will continue with this new format for our yearly meeting, and will from now on not call it "new style" anymore.

In July we had the very successful IFCS conference in Tilburg. It was for the first time that this meeting was held in Flanders or the Netherlands. The IFCS 2013 meeting attracted 241 participants from 26 countries.

The year 2014 is again an important year for our society. We will celebrate our 25<sup>th</sup> anniversary. For this occasion the VOC board together with Paul Eilers will organize a two-day Jubilee Conference in Kerkrade (at Rolduc) on November 6-7. I would like to ask you to already reserve these dates in your agenda.

On May 9 we will have our yearly one-day meeting in Leiden, with Arthur Tenenhaus as the keynote speaker and with contributed paper sessions by VOC members. New to this third edition of our yearly meetings is that we

### In this issue:

From the President	1
Jubilee Conference 25 years of VOC	2
News from IFCS	2
Publications	2
Book review	5
News from the book review editor	6
Personalalia	6
Meetings	6

will give a prize to the best young presenter: he or she will be invited to give a more extended presentation at our anniversary meeting in November.

I hope to see many of you in Leiden and in Kerkrade.

Jeroen Vermunt

---

## Jubilee Conference 25 years of VOC

The 2014 Jubilee Meeting for 25 years of VOC will take place November 6-7, 2014 at Rolduc in Kerkrade. More information will later be provided in the next newsletter and through the website.

---

## News from IFCS

The 21<sup>st</sup> International Conference on Computational Statistics (COMPSTAT 2014) will take place August, 19-22, 2014 at the Inter-national Conference Centre in Geneva. This edition will also host the 5<sup>th</sup> IASC World Conference.

---

## Publications

Braeken, J., Kuppens, P., De Boeck, P., & Tuerlinckx, F. (in press). Contextualized personality questionnaires: A case for copulas in structural equation models for categorical data. *Multivariate Behavioral Research*.

Bringmann, L. F., Vissers, N., Wichers, M., Geschwind, N., Kuppens, P., Peeters, F., Borsboom, D., & Tuerlinckx, F. (2013). A network approach to psychopathology: New insights into clinical longitudinal data. *PLoS ONE*, 8, e60188, 1-13. doi:10.1371/journal.pone.0060188

Bulteel, K., Ceulemans, E., Thompson, R. J., Waugh, C. E., Gotlib, I. H., Tuerlinckx, F., & Kuppens, P. (in press). DeCon: A tool to detect emotional concordance in multivariate time-series data of emotional responding. *Biological Psychology*. doi:10.1016/j.biopsycho.2013.10.011

Bulteel, K., Wilderjans, T. F., Tuerlinckx, F., & Ceulemans, E. (2013). CHull as an alternative to AIC and BIC in the context of mixtures of factor analyzers. *Behavior Research Methods*, 45, 782-791. doi:10.3758/s13428-012-0293-y

Ceulemans, E., Hubert, M., & Rousseeuw, P. (2013). Robust multilevel simultaneous component analysis. *Chemometrics and Intelligent Laboratory Systems*, 129, 33-39. doi:10.1016/j.chemolab.2013.06.016

Cho, S. J., De Boeck, P., Embretson, S., & Rabe-Hesketh, S. (in press). Additive multilevel item structure models with random residuals: Item modeling for explanation and item generation. *Psychometrika*.

Commandeur, J. J. F., Bijleveld, F. D., Bergel-Hayat, R., Antoniou, C., Yannis, G., & Papadimitriou, E. (2013). On statistical inference in time series analysis of the evolution of road safety. *Accident Analysis and Prevention*, 60, 424-434. doi:10.1016/j.aap.2012.11.006

Debeer, D., & Janssen, R. (2013). Modeling item-position effects within an IRT framework. *Journal of Educational Measurement*, 50, 164-185. doi:10.1111/jedm.12009

De Bruin, A. B. H., Kok, E. M., Leppink, J., & Camp, G. (2013). Practice, intelligence, and enjoyment in novice chess players: a prospective study at the earliest stage of a chess career. *Intelligence*. doi:10.1016/j.intell.2013.07.004

Decker, R., Andersson, B., Nierop, A. F. M., Bosaeus, I., Dahlgren, J., Albertsson-Wikland, K., & Hellgren, G. (in press). Protein markers predict body composition during growth hormone (GH) treatment in short prepubertal children. *Clinical Endocrinology*. doi:10.1111/cen.12196

de Rooij, J. J., Devos, O., Sliwa, M., Ruckebusch, C., & Eilers, P. H. C. (2013). Mixture models for two-dimensional baseline correction, applied to artifact elimination in time-resolved spectroscopy. *Analytica Chimica Acta*, 771, 7-13. doi:10.1016/j.aca.2013.02.007

De Roover, K., Ceulemans, E., Timmerman, M. E., Nezlek, J. B., & Onghena, P. (2013). Modeling differences in the dimensionality of multiblock data by means of clusterwise simultaneous component analysis. *Psychometrika*, 78, 648-668. doi:10.1007/S11336-013-9318-4

De Roover, K., Timmerman, M. E., Mesquita, B., & Ceulemans, E. (2013). Common and cluster-specific simultaneous component analysis. *PLoS ONE*, 8, e62280, 1-14. doi:10.1371/journal.pone.0062280

De Roover, K., Timmerman, M. E., Van Diest, I., Onghena, P., & Ceulemans, E. (in press). Switching prin-

principal component analysis for modeling changes in means and covariance structure over time. *Psychological Methods*.

De Roover, K., Timmerman, M. E., Van Mechelen, I., & Ceulemans, E. (in press). On the added value of multiset methods for three-way data analysis. *Chemometrics and Intelligent Laboratory Systems*, 129, 98-107. doi:10.1016/j.chemolab.2013.05.002

De Vet, H. C., Mokkink, L. B., Terwee, C. B., Hoekstra, O. S., & Knol, D. L. (2013). Clinicians are right not to like Cohen's K. *BMJ* 2013, 346:f2125. doi:10.1136/bmj.f2125

Doove, L. L., Van Buuren, S., & Dusseldorp, E. (2014). Recursive partitioning for missing data imputation in the presence of interaction effects. *Computational Statistics and Data Analysis*, 72, 92-104. doi:10.1016/j.csda.2013.10.025

Dray, S., Choler, P., Dolédec, S., Peres-Neto, P. R., Thuiller, W., Pavoine, S., & ter Braak, C. J. F. (in press). Combining the fourth-corner and the RLQ methods for assessing trait responses to environmental variation. *Ecology*. doi:10.1890/13-0196.1

Dusseldorp, E., Van Genugten, L., Van Buuren, S., Verheijden, M., & Van Empelen, P. (in press). Combinations of techniques that effectively change health behavior: Evidence from Meta-CART analysis. *Health Psychology*.

Dusseldorp, E., & Van Mechelen, I. (in press). Qualitative interaction trees: A tool to identify qualitative treatment-subgroup interactions. *Statistics in Medicine*. doi:10.1002/sim.5933

Gast, K. B., Smit, J. W. A., den Heijer, M., Middeldorp, S., Rippe, R. C. A., le Cessie, S., de Koning, E. J. P., Jukema, J. W., Rabelink, T. J., de Roos, A., Rosendaal, F. R., & de Mutsert, R. for the NEO study group. (2013). Abdominal adiposity largely explains associations between insulin resistance, hyperglycemia and subclinical atherosclerosis: the NEO study. *Atherosclerosis*, 229(2), 423-429. doi:10.1016/j.atherosclerosis.2013.05.021

González, J., De Boeck, P., & Tuerlinckx, F. (in press). Linear mixed modeling for data from a double mixed factorial design with covariates. A case study on semantic categorization response times. *Journal of the Royal Statistical Society: Series C (Applied Statistics)*.

Güngör, D., Bornstein, M. H., De Leersnyder, J., Cote, L., Ceulemans, E., & Mesquita, B. (2013). Acculturation of personality: A three-culture study of Japanese, Japanese Americans, and European Americans. *Journal of Cross-Cultural Psychology*, 44, 701-718. doi:10.1177/0022022112470749

Heijltjes, A., Van Gog, T., Leppink, J., & Paas, F. (2014). Improving critical thinking: effects of dispositions and instructions on economics students' reasoning skills. *Learning and Instruction*, 29, 31-42. doi:10.1016/j.learninstruc.2013.07.003

Hiremath, S. A., van der Heijden, G. W. A. M., van Evert, F. K., Stein, A., & ter Braak, C. J. F. (2014). Laser range finder model for autonomous navigation of a robot in a maize field using a particle filter. *Computers and Electronics in Agriculture*, 100, 41-50. doi:10.1016/j.compag.2013.10.005

Ip, E., Molenberghs, G., Chen, S. H., Goegebeur, Y., & De Boeck, P. (2013). Functionally unidimensional item response models for multivariate binary data. *Multivariate Behavioral Research*, 48(4), 534-562. doi:10.1080/00273171.2013.796281

Jamil, T., Ozinga, W. A., Kleyer, M., & ter Braak, C. J. F. (2013). Selecting traits that explain species-environment relationships: a generalized linear mixed model approach. *Journal of Vegetation Science*, 24(6), 988-1000. doi:10.1111/j.1654-1103.2012.12036.x

Jamil, T., & ter Braak, C. J. F. (2013). Generalized linear mixed models can detect unimodal species-environment relationships. *PeerJ*, 1:e95. doi:10.7717/peerj.95.

Jansen, R., Ceulemans, E., Grauwels, J., Maljaars, J., Zink, I., Steyaert, J., & Noens, I. (2013). Young children with language difficulties: A dimensional approach to subgrouping. *Research in Developmental Disabilities*, 34, 4115-4124. doi:10.1016/j.ridd.2013.08.028

Kadengye, D. T., Ceulemans, E., & Van den Noortgate, W. (in press). A generalized longitudinal mixture IRT model for measuring differential growth in learning environments. *Behavior Research Methods*. doi:10.3758/s13428-013-0413-3

Kadengye, D. T., Ceulemans, E., & Van den Noortgate, W. (in press). Direct likelihood analysis and multiple imputation for missing item scores in multilevel cross-classification educational data. *Applied Psychological Measurement*. doi:10.1177/0146621613491138

- Kamp, R. J. A., Van Berkel, H. J. M., Popeijus, H. E., Leppink, J., Dolmans, D. H. J. M., & Schmidt, H. G. (in press). Midterm peer feedback in problem-based learning groups: the effects of individual contributions and achievement. *Advances in Health Sciences Education*. doi:10.1007/s10459-013-9460-x
- Kempenaers, C., De Boeck, P., Dehon, C., Braun, S., & Linkowski, P. (in press). Metric invariance of the French version of the contingencies of self-worth scale. *The International Journal of Educational and Psychological Assessment*.
- Kourmpetis, Y. A. I., van Dijk, A. D. J., & ter Braak, C. J. F. (2013). Gene Ontology consistent protein function prediction: the FALCON algorithm applied to six eukaryotic genomes. *Algorithms for Molecular Biology*, 8:10. doi:10.1186/1748-7188-8-10
- Kutzera, J., Hoefsloot, H. C. J., Malovannaya, A., Smit, A. B., Van Mechelen, I., & Smilde, A. K. (2013). Inferring protein-protein interaction complexes from immunoprecipitation data. *BMC Research Notes*, 6, 468. doi:10.1186/1756-0500-6-468
- Lee, D.-J., Durban, M., & Eilers, P. H. C. (2013). Efficient two-dimensional smoothing with P-Spline Anova mixed models and nested bases. *Computational Statistics and Data Analysis*, 61, 22-37. doi:10.1016/j.csda.2012.11.013
- Lee, M., & Vanpaemel, W. (2013). Quantum models of cognition as Orwellian newspeak. *Behavioral and Brain Sciences*, 36(3), 295-296. doi:10.1017/S0140525X12003020
- Leppink, J., Broers, N. J., Imbos, T., Van der Vleuten, C. P. M., & Berger, M. P. F. (2013). The effectiveness of propositional manipulation as a lecturing method in the statistics knowledge domain. *Instructional Science*, 41, 1127-1140. doi:10.1007/s11251-013-9268-3
- Leppink, J., Broers, N. J., Imbos, T., Van der Vleuten, C. P. M., & Berger, M. P. F. (in press). The effect of guidance in problem-based learning of statistics. *Journal of Experimental Education*. doi:10.1080/00220973.2013.813365
- Leppink, J., Paas, F., Van der Vleuten, C. P. M., Van Gog, T., & Van Merriënboer, J. J. G. (2013). Development of an instrument for measuring different types of cognitive load. *Behavior Research Methods*, 45(4), 1058-1072. doi:10.3758/s13428-013-0334-1
- Magis, D. (2013). A note on the item information function of the four-parameter logistic model. *Applied Psychological Measurement*, 37, 304-315. doi:10.1177/0146621613475471
- Magis, D. (in press). A note on weighted likelihood and Jeffreys modal estimation of proficiency levels in polytomous item response models. *Psychometrika*.
- Magis, D. (in press). On the asymptotic standard error of a class of robust estimators of ability in dichotomous item response models. *British Journal of Mathematical and Statistical Psychology*. doi:10.1111/bmsp.12027
- Magis, D., & De Boeck, P. (in press). Type I error inflation in DIF identification with Mantel-Haenszel: An explanation and a solution. *Educational and Psychological Measurement*.
- Meulders, M. (2013). An R package for probabilistic latent feature analysis of two-way two-mode frequencies. *Journal of Statistical Software*, 54, 1-29.
- Meulders, M., Tuerlinckx, F., & Vanpaemel, W. (2013). Constrained multilevel latent class models for the analysis of three-way three-mode binary data. *Journal of Classification*, 30, 306-337. doi:10.1007/s00357-013-9141-8
- Partchev, I., De Boeck, P., & Steyer, R. (2013). How much power and speed is measured in this test? *Assessment*, 20(2), 242-252. doi:10.1177/1073191111411658
- Radivojac, P. [and 102 others, among which Kourmpetis, Y. A. I., van Dijk, A. D. J., & ter Braak, C. J. F.] et al. (2013). A large-scale evaluation of computational protein function prediction. *Nature Methods*, 10(3), 221-227. doi:10.1038/nmeth.2340
- Rippe, R. C. A., den Heijer, M., & le Cessie, S. (2013). Rekenen met ontbrekende gegevens. *Nederlands Tijdschrift voor Geneeskunde*, 157, A5539.
- Sassen, M., Sheil, D., Giller, K. E., & ter Braak, C. J. F. (2013). Complex contexts and dynamic drivers: Understanding four decades of forest loss and recovery in an East African protected area. *Biological Conservation*, 159, 257-268. doi:10.1016/j.biocon.2012.12.003
- Schnabel, S. K., & Eilers, P. H. C. (2013). Simultaneous estimation of quantile curves using quantile sheets. *Asta-Advances in Statistical Analysis*, 97(1), 77-87. doi:10.1007/s10182-012-0198-1

Schouteden, M., Van Deun, K., Pattyn, S., & Van Mechelen, I. (2013). SCA with rotation to distinguish common and distinctive information in linked data. *Behavior Research Methods*, *45*, 822-833. doi:10.3758/s13428-012-0295-9

Schouteden, M., Van Deun, K., Wilderjans, T. F., & Van Mechelen, I. (in press). Performing DISCO-SCA to search for distinctive and common information in linked data. *Behavior Research Methods*. doi:10.3758/s13428-013-0374-6

Sikorska, K., Lesaffre, E., Groenen, P. F. J., & Eilers, P. H. C. (2013). GWAS on your Notebook: fast semi-parallel linear and logistic regression for genome-wide association studies. *BMC Bioinformatics*, *14*:166. doi:10.1186/1471-2105-14-166

Sikorska, K., Rivadeneira, F., Groenen, P. J. F., Hofman, A., Uitterlinden, A. G., Eilers, P. H. C., & Lesaffre, E. (2013). Fast linear mixed model computations for genome-wide association studies with longitudinal data. *Statistics in Medicine*, *32*(1), 165-80. doi:10.1002/sim.5517

Stipdonk, H., Bijleveld, F., van Norden, Y., & Commandeur, J. J. F. (2013). Analysing the development of road safety using demographic data. *Accident Analysis and Prevention*, *60*, 435-444. doi:10.1016/j.aap.2012.08.005

ter Braak, C. J. F., Cormont, A., & Dray, S. (2012). Improved testing of species traits-environment relationships in the fourth corner problem. *Ecology*, *93*(7), 1525-1526. doi: 10.1890/12-0126.1

Timmerman, M. E., Ceulemans, E., De Roover, K., & Van Leeuwen, K. (2013). Subspace K-means clustering. *Behavior Research Methods*, *45*(4), 1011-1023. doi:10.3758doi:10.3758/s13428-013-0329-y

van Dam, E. A., van der Harst, J. E., ter Braak, C. J. F., Tegelenbosch, R. A. J., Spruijt, B. M., & Noldus, L. P. J. J. (2013). An automated system for the recognition of various specific rat behaviours. *Journal of Neuroscience Methods*, *218*, 214- 224. doi:10.1016/j.jneumeth.2013.05.012

Van Deun, K., Smilde, A. K., Thorrez, L., Kiers, H. A. L., & Van Mechelen, I. (in press). Identifying common and distinctive processes underlying multiset data. *Chemometrics and Intelligent Laboratory Systems*, *129*, 40-51. doi:10.1016/j.chemolab.2013.07.005

Vrugt, J. A., ter Braak, C. J. F., Diks, C. G. H., & Schoups, G. (2013). Hydrologic data assimilation using particle Markov chain Monte Carlo simulation: Theory, concepts and applications. *Advances in Water Resources*, *51*, 457-478. doi:10.1016/j.advwatres.2012.04.002

Wilderjans, T. F., & Ceulemans, E. (2013). Clusterwise Parafac to identify heterogeneity in three-way data. *Chemometrics and Intelligent Laboratory Systems*, *129*, 87-97. doi:10.1016/j.chemolab.2013.09.010

Wilderjans, T. F., Lambrechts, G., Maes, B., & Ceulemans, E. (in press). Revealing interdyad differences in naturally occurring staff reactions to challenging behavior of clients with severe or profound intellectual disabilities by means of Clusterwise HICLAS. *Journal of Intellectual Disability Research*. doi:10.1111/jir.12076

---

## Book review

**Applied Categorical and Count Data Analysis, Wan Tang, Hua He and Xin M. Tu. (363 pages). Chapman & Hall/CRC Press, Boca Raton, FL, 2012. ISBN 978-1-4398-0624-1.**

The book has 10 chapters and covers various topics in categorical data analysis: bivariate associations (ch. 2), stratified bivariate associations (ch. 3), logistic regression (ch. 4), count regression (ch. 5), loglinear models (ch. 6), discrete survival (ch. 7), GEE and mixed-effects models for longitudinal data (ch. 8), ROC curves and reliability coefficients (ch. 9), and missing data (ch. 10). The book grew out of a set of lecture notes for a graduate course on categorical data analysis for medical students.

### *The good*

The book is concise, treating a large variety of subjects in only 345 pages. It has exercises at the end of every chapter intended to aid (self-)study. Since it grew out of a course for medical students, readers in that field will appreciate the consistent use of examples from medicine. Although medicine is not my primary field, I do get the impression that the authors did a good job collecting the main methods that are popular in this field. While I found several typos and, in my opinion, confusing explanations, I did not find any outright mistakes and the mathematical treatments appear accurate.

### *The bad*

Although the authors assert the contrary in their preface, learning from this book is only possible for those with a solid understanding of advanced statistical concepts. Familiarity with statistical notation, matrix algebra, and

the theory behind maximum likelihood estimation are requirements to understand most of the text. Since the authors do not appear to think so in their preface, here are just a few examples that motivate my opinion:

Estimating a proportion in a Bernoulli distribution is introduced on the second page of the first “content” chapter (p. 32) as

$$\hat{p} \xrightarrow{p} p, \hat{p} \overset{a}{\sim} N\left(p, \frac{1}{n}p(1-p)\right) \text{ as } n \rightarrow \infty$$

While I’m sure the authors and reader might benefit from this approach, I doubt graduate students in applied fields such as medicine, social science, or psychology would, or would need to.

Exercises such as 1.3: “Prove Slutsky’s theorem.”, or, to take another random example, 4.17: “Verify the conditional likelihood (4.27).”.

A random sample of pages suggests about 80% of pages have two or more equations like the above, 10% is exercises and only 10% is pure explanation.

I was a little disappointed to find no treatment of latent class analysis, structural equation modeling, funnel plots for comparing institutional performance, or more recent techniques for assessing diagnostic error in the absence of a gold standard. Optimal scaling, PLS, and related categorical data methods popular at the VOC are also absent.

#### *The ugly*

While this does not detract from the content and is not due to the authors but to the publisher, I found the large number of grammatical and stylistic errors and typos to be rather distracting. A random sample of 5 pages suggests there are 2 such errors per page on average (a Poisson model fits the data well). These are mostly of the type “pull” rather than “pool”, “cite” instead of “site”, “bumble” not “humble” (p. 1!), etc. An (to me) amusing example is the “odd ratio”.

More seriously perhaps, I feel that some of the explanations offered, while certainly not wrong, will confuse students. For example, a distinction is made between binary and nominal variables but gender is in the list of examples of both; or in survey analysis, dependence between observations as a result of cluster sampling is mentioned, but then the finite population correction (fpc) is given as an example of dealing with correlated observations. While the explanation given is correct, namely that the fpc takes, in some sense, a correlation between observations into account, it is, to say the least, a rather confusing treatment of the subject. I found such examples throughout the chapters. Of course, this confusion may simply reflect a difference in the authors’ and my way of thinking or even (dare I say it) a misunderstanding on my part.

#### *Conclusion*

I can imagine this book being used by tech-savvy researchers who wish to get into medical statistics and get a rapid overview of the most popular methods for categorical data in that field: for example, an econometrician consulting for medical researchers. Another target group might be graduate students in quantitative analysis who wish to learn some categorical data analysis techniques. However, these groups should also consider Agresti (2002), which, while more voluminous and less tailored towards the field of medicine, is cheaper, offers a wider menu of techniques and gives more structured explanations.

And CRC press: at a list price of €137.40, some copy-editing would have been nice!

Daniel L. Oberski  
Department of Methodology & Statistics,  
Tilburg University

---

#### **News from the book review editor**

We are looking for a reviewer for the book “Generalized Linear Models and Extensions” by James W. Hardin and Joseph M. Hilbe (ISBN 9781597181051).

Ideas for other books to review, along with a suggestion for a reviewer, are always welcome and may be submitted to the book review editor (Ralph Rippe; R.C.A.Rippe@lumc.nl).

---

#### **Personalalia**

Dr. Renske Huffmeijer, dr. Viara Mileva-Seitz and dr. Ralph Rippe from the Centre for Child and Family Studies, Institute of Education and Child Studies, Leiden University received a grant of 120.000 CHF from the Jacobs Foundation for their research project titled “DRD4 genotype as a moderator of L-Dopa intervention effects on parent-related neurocognitive processes, behaviors, and attitudes: A micro-trial of differential susceptibility to pharmacological intervention”.

---

#### **Meetings**

In January 2014, EpidM (Amsterdam) will organize, for the second time, international Winter Courses in Epidemiology. The EpidM Winter Courses provide a unique possibility to follow advanced level epidemiology

and applied biostatistics courses regarding the following topics: clinical prediction models (13-15 January, Amsterdam), mixed models (16-17 and 20-21 January, Amsterdam), Missing Data: Consequences and Solutions (22-23 January, Amsterdam) and clinimetrics (13-15 January, Soesterberg). One of the strengths of these courses is the combination of lectures and computer practical's. For more information, go to [www.epidm.nl/wintercourses](http://www.epidm.nl/wintercourses).

Together with two colleagues, Jörg Henseler has founded the online learning platform SEM'n'R ([www.sem-n-r.com](http://www.sem-n-r.com)). Via this platform they offer videos and other resources on structural equation modeling using R and partial least squares path modeling using SmartPLS. A six-week web seminar titled "Structural Equation Modeling with R Package lavaan" will start on 13 January 2014. More info and registration via [www.sem-n-r.com/uploads/lavaan-course.pdf](http://www.sem-n-r.com/uploads/lavaan-course.pdf).

A three-day seminar on PLS path modeling using SmartPLS will take place on April 7-9 in Hamburg, Germany. More info and registration via <http://april2014.pls-school.com>.

The 8<sup>th</sup> International Conference on Partial Least Squares and Related Methods (PLS2014) will take place in Paris at May 26-28, 2014. This eighth edition will focus on methodological contributions in both PLS Regression, PLS Path Modeling and their related methods with application in areas and disciplines related to Management, Social Sciences, Chemometrics, Sensory Analysis, Industry and Life Sciences including Genomics. The submission of abstracts closes by December 27, 2013. For more information, see [www.pls14.org](http://www.pls14.org).

The "Onderwijs Researchdagen" will take place in Groningen at June 11-13, 2014. For more information, see [www.ord2014.nl](http://www.ord2014.nl).

The 34<sup>th</sup> International Symposium on Forecasting will be organized 29 June - 2 July, 2014 in Rotterdam, The Netherlands. The International Symposium on Forecasting (ISF) is the premier forecasting conference, attracting the world's leading forecasting researchers, practitioners, and students. Through a combination of keynote speaker presentations, academic sessions, workshops, and social programs, the ISF provides many excellent opportunities for networking, learning, and fun. For more information, see [www.forecasters.org/isf/](http://www.forecasters.org/isf/).

The 29<sup>th</sup> International Workshop on Statistical Modelling (IWSM) will take place 14-18 July, 2014 in Göttingen (Germany). Confirmed invited speakers are Antoine de Falguerolles (Université de Toulouse, France), Alejandro Jara (Pontificia Universidad Católica de Chile, Chile), Sophia Rabe-Hesketh (University of California, Berkeley, USA), Gerhard Tutz (Ludwig-Maximilians-Universität München, Germany), and Simon

Wood (University of Bath, UK). A short course on model-based boosting (including hands-on tutorials for the R add-on package mboost) preceding the workshop will be delivered on July 13, 2014 by Matthias Schmid, Andreas Mayr and Benjamin Hofner (Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany). The deadline for submission of abstracts is January 31, 2014. For more information, go to [www.uni-goettingen.de/en/432678.html](http://www.uni-goettingen.de/en/432678.html).

The European Association of Methodology (EAM) is happy to announce its sixth biannual-conference in 2014. It will take place in Utrecht, the Netherlands, from July 23-25, 2014, with pre-conference courses on July 22. The aim of the conference is to bring together specialists in methodology and statistics in the fields of Behavioral, Social, Educational, Health and Economic Sciences, as well as in Evaluation research. Topics on previous conferences ranged from design and data collection to statistical analysis, including measurement models, imputation, and causal inference. See also: [www.eam-online.org](http://www.eam-online.org).

The VI European Congress of Methodology is held in Utrecht, July 23-25, 2014. The deadline for submitting abstracts is February 1, 2014. For more information, see <http://eam2014.fss.uu.nl/call-for-abstracts/>.

The German Classification Society (GfKl) invites you to the Second European Conference on Data Analysis (ECDA2014) that will be held in Bremen, July 2-4, 2014. For more information, go to [www.ecda2014.eu](http://www.ecda2014.eu).

The 6<sup>th</sup> International Chemometrics Research Meeting (ICRM 2014) will be held between 14-18 September 2014 at Val Monte Hotel in Berg en Dal near Nijmegen, the Netherlands. For more information, see <http://icrm2014.org/>.

During the next months, different workshops and courses will be organized:

- What is Psychometrics (March 11-12, 2014, Leiden University, [www.iops.nl/category/courses](http://www.iops.nl/category/courses))
- Meta analysis (dr. W. Viechtbauer, April 30, May 1-2, 2014, Maastricht University, [www.wvbauer.com/ma\\_course.html](http://www.wvbauer.com/ma_course.html))
- Bayesian statistics (May 12-16, 2014, Utrecht University, [www.iops.nl/category/courses](http://www.iops.nl/category/courses))
- Bayesian Modeling for Cognitive Science, Fourth Annual WinBUGS workshop (August 11-15, 2014, Amsterdam, <http://bayescourse.socsci.uva.nl>)
- Mplus: How to get started? (prof. dr. Joop Hox and dr. Susanne Jak, February 14, 2014, Utrecht University, [www.uu.nl/faculty/socialsciences/NL/onderzoek/promoveren/courseoffering/Pages/MPST.aspx](http://www.uu.nl/faculty/socialsciences/NL/onderzoek/promoveren/courseoffering/Pages/MPST.aspx))