



Tutorial II:
“Novel chemometric methods: *Application of chemometrics in environmental and food safety domains*“

Lecturer
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September 9th 2011
15.00-19.00

- 15.00-15.15 Opening and overview of the agenda, Prof. Biljana Škrbić, Faculty of Technology, University of Novi Sad
- 15.15-17.00 Ranking of models and (analytical methods): Sum of Ranking Differences
- 17.00-17.30 Coffee and tea break
- 17.30-18.45 Variable selection: Pair-Correlation Method (PCM)
- 18.45-19.00 Award of certificates



Tutorial will be in the computer room after the regular registration, the registered participant will be involved in method application using real data sets, i.e. the data used in publications

SRD:

K. Héberger, Sum of ranking differences compares methods or models fairly, *TrAC Trends in Analytical Chemistry*, 29, 101-109, 2010.

K. Héberger and Klára Kollár-Hunek, Sum of ranking differences for method discrimination and its validation: comparison of ranks with random numbers, *Journal of Chemometrics*, 25, 151-158 (2011)

PCM

- R. Rajkó and K. Héberger: Conditional Fisher's Exact Test as a Selection Criterion for Pair-Correlation Method. Type I and Type II Errors, *Chemometrics Intelligent Laboratory Systems*, 57, 1-14 (2001)
- K. Héberger and R. Rajkó: Variable Selection using Pair-Correlation Method. *Environmental Applications. SAR and QSAR in Environmental Research*, 13, 541-554 (2002)
- K. Héberger and R. Rajkó, Generalization of Pair-Correlation Method (PCM) for Nonparametric Variable Selection, *Journal of Chemometrics*, 16, 436-443 (2002)
- K. Héberger and J. M. Andrade, Procrustes Rotation and Pair-Wise Correlation: a Parametric and a Non-parametric Method for Variable Selection, *Croatica Chemica Acta* 77, 117-125 (2004)

About the lecturer

Professor Károly Héberger is internationally highly recognized Hungarian chemometrician. He is a member of editorial boards of many international journals. Prof. Héberger published his research results in around 125 peer-reviewed articles and delivered more than 260 lectures or posters. His papers were cited more than 1500 times. Some selected papers are listed above. More about his research interests and results can be found on the following web address: <http://www.chemres.hu/scientist/heberger/>.