

International Conference *Applications of Mathematics and Statistics in Economy* (AMSE 2018)

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From 29th August to 2nd September 2018 the 21st year of International conference *Applications of Mathematics and Statistics in Economy* (21st AMSE) was held in the beautiful environs of historical town Kutna Hora. This year's conference was organized by the Department of Statistics and Probability and the Department of Economic Statistics of the Faculty of Informatics and Statistics of the University of Economics Prague. The conference was attended by more than 60 experts from the Czech Republic, Slovakia and Poland representing University of Economics, Prague, Matej Bel University, Banská Bystrica, Wrocław University of Economics, Czech Statistical Office, Metropolitan University, Prague and Institute of Hospitality Management in Prague.

The conference dealing with the above subject was held for the 21st time. The characteristic feature of this traditional trilateral conference is the exchange of knowledge and experience, presentation of the latest results of research and discussion on new procedures and methods. Working meetings of representatives of co-operating work places and determination of future trends of scientific and pedagogic co-operation made a vital part of this event.

The programme of the conference was opened by the vice-president of the Czech Statistical Office, Jaroslav Sixta, with his lecture *The Recovery of the Input-Output Analysis in the Czech Republic*, in which he summarized the history of the use of input-output tables and showed new trends of research which are to be applied in the field of macro-economic, environmental and regional analyses. The participants of the conference discussed the issues in the following 10 sections: Macroeconomic issues, Regional analysis, Social economics issues, Multivariate statistical methods, Multivariate statistical methods, Insurance and demography, Time series analysis methods, Insurance market, Financial market, History of statistics. Since it is rather difficult to point out the most inter-esting contributions; allow me to mention only those papers of doctoral and post-doctoral students which I consider of high quality, interesting and innovative in terms of methodology.

In the section *Macroeconomic issues* most attention was paid to the contribution *Margins on Buying and Selling Transactions and Their Capturing in the System of National Accounts*, in which the authors (Kramulová, J., Vincenc, J., Houžvičková, H.) presented an original method of estimating and capturing of trade surcharge on transactions with securities, shares, investment fund shares and foreign currencies. Their approach was based on the fact that in the Czech Republic no reliable database on completed transactions exists. Their new methodology will, undoubtedly, serve an inspiration for other EU countries.

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In section Regional analysis contributions based on the use of the input-output analysis prevailed. K. Šafr in his contribution *Combination of Regional and World Input-Output Tables: A Czech Case of Territorial Export at Regional Level* presented methodology of estimating Czech territorial export at the regional level. It is a new approach responding to the fact that since 2008 the Czech Statistical Office has stopped publishing the territorial structure of Czech regional export and it is therefore useful to search for new model approaches.

Practical application of multivariate statistical methods (in section Multivariate statistical methods) was presented by Cibulková, J. and Šulc, Z. in the paper *A Case Study of Customer Segmentation with the Use of Hierarchical Cluster Analysis of Categorical Data*. Results of their analysis may help companies to aim their marketing strategy more effectively.

In section *Time series analysis methods* theoretical contribution *Comparison of Robust Moment Methods for Parameter Estimation in Autoregressive Process* (authors: Flimmel, S., Fojtík, J., Malá, I. and Procházka, J.) took interest because the authors presented several robust moment methods for parameter estimation in $AR(p)$ and compared them using a simulation study.

In section *Financial markets* Virdzek, T., Kubaška, P. and Cisková, P. presented in their paper *Portfolio Performance: An Active Approach to Weighting Assets in the Portfolio Versus a Naive Diversification* new approaches to assessment of the performance of active approach to weighting in the portfolio versus naive diversification. According to authors, an active approach is the approach to constructing an optimal portfolio based on the weighting of individual assets in the portfolio.

In traditional section dealing with *History of statistics* it is desirable to mention the contribution *Scientific and Publishing Activities of the Land Statistical Office in Bohemia*, where the authors (Závodský, P. a Šimpach O.) reminded this year's 120th anniversary of birth of the Land Statistical Office in Prague.

For a complete programme of AMSE 2018, including full texts of presented contributions see <<http://www.amse-conference.eu>> where the information on AMSE history and reference to previous years of this international conference is available.

Papers presented at the conference AMSE 2018 are published in the book of proceedings that has been send to Thomson Reuters to be considered for inclusion into the Conference Proceedings Citation Index (CPCI). The proceedings of the past four AMSE conferences (i.e. AMSE 2014, 2015, 2016, 2017) have been successfully indexed and are available in the Web of Science database.

Tradition of alternate conference holding (Slovakia – Poland – Czech Republic) continues and the 22nd year of the AMSE conference which is to be organized by the Department of Quantitative Methods of Matej Bel University, Banská Bystrica, will be held at the turn of August and September 2019 in Slovakia, in the mountains in Orava. For the future AMSE 2019 conference contributions reminding the 100th anniversary of the Czechoslovak state statistics are invited.