

## Publikációs lista, Baran Sándor

### A) REFERÁLT FOLYÓIRATCIKK

1. Baran, S., Szák-Kocsis, Cs., Stehlík, M., D-optimal designs for complex Ornstein-Uhlenbeck processes. *J. Stat. Plan. Inference*, benyújtott (arXiv: 1704.05719).
2. Baran, S., Lerch, S., Combining predictive distributions for statistical post-processing of ensemble forecasts. *Comput. Stat. Data. Anal.*, benyújtott (arXiv: 1607.08096).
3. Baran, S., K-optimal designs for parameters of shifted Ornstein-Uhlenbeck processes and sheets. *J. Stat. Plan. Inference* **186** (2017), 28–41. (Impakt faktor: 0.727)
4. Baran, S., Möller, A., Bivariate ensemble model output statistics approach for joint forecasting of wind speed and temperature. *Meteorol. Atmos. Phys.* **129** (2017), no. 1, 99–112. (Impakt faktor: 1.172, független hivatkozás: 1)
  - Schefzik, R., Combining parametric low-dimensional ensemble postprocessing with reordering methods. *Q. J. R. Meteorol. Soc.* **142** (2016), 2463–2477.
5. Lerch, S., Baran, S., Similarity-based semi-local estimation of EMOS models. *J. R. Stat. Soc. Ser. C Appl. Stat.* **66** (2017), no. 1, 29–51. (Impakt faktor: 1.354, független hivatkozás: 2)
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## D) EGYETEMI JEGYZET

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## E) ELŐADÁS NEMZETKÖZI KONFERENCIÁN

1. *Mixture EMOS model for calibrated ensemble forecasts of wind speed*. 12<sup>th</sup> German Probability and Statistics Days, Bochum, Germany, March 1–4, 2016.
2. *Bivariate BMA and EMOS models for joint calibration of temperature and wind speed forecasts*. Mini Symposium on Statistical Postprocessing of Ensemble Forecasts, HITS, Heidelberg, Germany, July 15, 2015 (meghívott).
3. *Log-normal distribution based EMOS models for probabilistic wind speed forecasting*. European Meeting of Statisticians, Amsterdam, The Netherlands, July 6–10, 2015.
4. *Joint calibration of temperature and wind speed forecasts using Bayesian Model Averaging*. 12<sup>th</sup> Workshop on Stochastic Models, Statistics and Their Applications, Wrocław, Poland, February 16–20, 2015.

5. *Probabilistic methods in wind speed forecasting*. Latin American Congress of Statistical Societies (CLATSE2014), La Serena, Chile, October 20–23, 2014 (meghívott).
6. *Comparison of BMA and EMOS statistical calibration methods for ensemble weather prediction*. 3<sup>rd</sup> Stochastic Modeling Techniques and Data Analysis International Conference (SMTDA2014), Lisbon, Portugal, June 11–14, 2014.
7. *Statistical post-processing of ensemble forecasts*. ECMI workshop on “The mathematics of air pollution”, Budapest, Hungary, May 26–27, 2014 (meghívott).
8. *Probabilistic wind speed forecasting using Bayesian model averaging with truncated normal components*. 11<sup>th</sup> German Probability and Statistics Days, Ulm, Germany, March 4–7, 2014.
9. *Statistical calibration of ensemble forecasts*. 9<sup>th</sup> International Conference on Applied Informatics, Eger, Hungary, January 29–February 1, 2014.
10. *Probabilistic temperature forecasting with statistical calibration in Hungary*. 29<sup>th</sup> European Meeting of Statisticians, Budapest, Hungary, July 20–25, 2013.
11. *Optimal design for parameters of a shifted Ornstein-Uhlenbeck sheet*. XXXI. International Seminar on Stability Problems for Stochastic Models, Moscow, Russia, April 23–27, 2013.
12. *Parameter estimation and testing stability in a spatial unilateral autoregressive model*. Modern Stochastic: Theory and Applications III, Kyiv, Ukraine, September 10–14, 2012 (meghívott).
13. *Parameter estimation in linear regression driven by a Gaussian random field*. 8<sup>th</sup> World Congress in Probability and Statistics, Istanbul, Turkey, July 9–14, 2012.
14. *Probabilistic wind speed prediction in Hungary*. 10<sup>th</sup> German Probability and Statistics Days, Mainz, Germany, March 6–9, 2012.
15. *Calibrating forecast ensembles of the LAMEPS system of the Hungarian Meteorological Service using Bayesian Model Averaging*. Applied Mathematics and Scientific Computing, Trogir, Croatia, June 13–17, 2011.
16. *Parameter estimation in a spatial unit root autoregressive model*. Applied Stochastic Models and Data Analysis (ASMDA2011), Rome, Italy, June 7–10, 2011.
17. *Asymptotic inference of a spatial unit root autoregressive model*. Modern Stochastic: Theory and Applications II, Kyiv, Ukraine, September 7–11, 2010 (meghívott).
18. *Parameter estimation in a spatial unit root autoregressive model*. 10<sup>th</sup> International Vilnius Conference on Probability Theory and Mathematical Statistics, Vilnius, Lithuania, June 28–July 2, 2010.

19. *On the covariance structure of an unstable unilateral spatial autoregressive model.* 27<sup>th</sup> European Meeting of Statisticians, Toulouse, France, July 20–24, 2009.
20. *Parameter estimation in unstable unilateral spatial autoregressive models.* Probability and Statistics with Applications, Debrecen, Hungary, June 8–12, 2009.
21. *Risk estimation in Down's syndrome screening.* XXVIII. International Seminar on Stability Problems for Stochastic Models, Zakopane, Poland, May 31–June 5, 2009.
22. *Asymptotic inference for a one-dimensional simultaneous autoregressive model.* Barcelona Conference on Asymptotic Statistics, Barcelona, Spain, September 1–5, 2008.
23. *Asymptotic behaviour of the least squares estimator in a nearly unstable sequence of spatial AR models.* 8th German Open Conference on Probability and Statistics, Aachen, Germany, March 4–7, 2008.
24. *Mean estimation of a shifted Wiener sheet.* 5th International Conference on Levy Processes: Theory and Applications, Copenhagen, Denmark, August 13–17, 2007 (poszter).
25. *Prediction of macroeconomic quantities using stochastic models.* Applied Mathematics and Scientific Computing, Brijuni, Croatia, July 9–13, 2007.
26. *An estimator for nonlinear regression models.* XXVI. International Seminar on Stability Problems for Stochastic Models, Sovata-Bai, Romania, August 27–September 2, 2006.
27. *Mean estimation of the Wiener sheet.* 26<sup>th</sup> European Meeting of Statisticians, Torun, Poland, July 24–28, 2006.
28. *Asymptotic inference for unstable spatial AR models.* 9<sup>th</sup> International Vilnius Conference on Probability Theory and Mathematical Statistics, Vilnius, Lithuania, June 25–30, 2006.
29. *Asymptotic inference for unit roots in spatial autoregression.* 25<sup>th</sup> European Meeting of Statisticians, Oslo, Norway, July 24–28, 2005.
30. *Prediction of Hungarian mortality rates using Lee-Carter method.* Applied Mathematics and Scientific Computing, Brijuni, Croatia, June 19–24, 2005.
31. *A consistent estimator for nonlinear regression models.* COMPSTAT 2004, Prague, Czech Republic, August 23–27, 2004 (poszter).
32. *Asymptotic inference for a nearly unstable sequence of stationary spatial AR models.* Third Croatian Congress of Mathematics, Split, Croatia, June 16–18, 2004.
33. *Parameter estimation in linear measurement error models.* Workshop Risk Analysis and Other Applications of Statistics, Budapest, Hungary, April 13–14, 2004.

34. *Estimating the risk of a Down's syndrome term pregnancy using age and serum markers.* 6<sup>th</sup> International Conference on Applied Informatics, Eger, Hungary, January 27–31, 2004.
35. *Asymptotic inference for an unstable triangular spatial AR model.* Statistical Inference in Linear Models, Bedlewo, Poland, August 21–27, 2003.
36. *An application of stochastic optimization in earth sciences.* Applied Mathematics and Scientific Computing, Brijuni, Croatia, June 23–27, 2003.
37. *A consistent estimator for linear measurement error models.* 24<sup>th</sup> European Meeting of Statisticians 2002, Prague, Czech Republic, August 19–23, 2002.
38. *Estimation of the mean of a Wiener sheet.* 23<sup>rd</sup> European Meeting of Statisticians 2001, Funchal, Madeira, Portugal, August 13–19, 2001.
39. *Estimation of the mean of Ornstein-Uhlenbeck processes and sheets.* XXI. International Seminar on Stability Problems for Stochastic Models, Eger, Hungary, January 28– February 3, 2001.
40. *A new estimator in linear measurement error models.* STAT'2000, International Conference on Mathematical Statistics, Szklarska Poreba, Poland, August 21–25, 2000.
41. *Estimation of the mean of Ornstein-Uhlenbeck processes.* Fourth Meeting of Austrian, Slovenian, Italian and Hungarian Young Statisticians, Pécs, Hungary, October 8–10, 1999 (meghívott).
42. *Asymptotic properties of an estimator in functional errors-in-variables models.* XX. International Seminar on Stability Problems for Stochastic Models, Lublin–Nałęczów, Poland, September 5–11, 1999.
43. *On the weak convergence of a continuous state space simulated annealing.* 4<sup>th</sup> International Conference on Applied Informatics, Eger–Noszvaj, Hungary, August 30–September 3, 1999.
44. *Application of limit theorems for errors-in-variables models.* Colloquium on Limit Theorems of Probability and Statistics, Balatonlelle, Hungary, June 28–July 2, 1999.
45. *On functionals of complex Ornstein-Uhlenbeck processes.* Austrian, Hungarian, and Slovenian Joint Meeting of Young Statisticians, Piran, Slovenia, October 9–11, 1998 (meghívott).
46. *An Application of simulated annealing to ML-estimation of a partially observed Markov Chain.* 3<sup>rd</sup> International Conference on Applied Informatics, Eger–Noszvaj, Hungary, August 24–28, 1997.

47. *Asymptotic properties in space and time of an estimator in errors-in-variables models in the presence of validation data.* 10<sup>th</sup> European Young Statistician Meeting, Warsaw, Poland, August 18–22, 1997 (meghívott).