

List of publications of Sándor Baran

A) ARTICLES IN JOURNALS

1. Baran, S., Baran, Á., Calibration of wind speed ensemble forecasts for power generation. *Időjárás* **125** (2021), no. 4, 609–624.
2. Baran, S., Szokol, P., Szabó, M., Truncated generalized extreme value distribution based EMOS model for calibration of wind speed ensemble forecasts. *Environmetrics* **32** (2021), paper e2678, doi:10.1002/env.2678.
 1. Taillardat, M. Skewed and mixture of Gaussian distributions for ensemble postprocessing. *Atmosphere* **12** (2021), paper 966, doi:10.3390/atmos12080966.
 2. Kosana, V., Madasthu, S., Teeparthi, K., A novel hybrid framework for wind speed forecasting using autoencoder-based convolutional long short-term memory network. *Int. Trans. Electr. Energ. Syst.* (2021), paper e13072, doi:10.1002/2050-7038.13072.
3. Díaz, M., Nicolis, O., Marín, J. C., Baran, S., Post-processing methods for calibrating the wind speed forecasts in central regions of Chile. *Ann. Math. Inform.* **53** (2021), 93–108.
4. Schulz, B., El Ayari, M., Lerch, S., Baran, S., Post-processing numerical weather prediction ensembles for probabilistic solar irradiance forecasting. *Sol. Energy* **220** (2021), 1016–1031.
 1. Taillardat, M. Skewed and mixture of Gaussian distributions for ensemble postprocessing. *Atmosphere* **12** (2021), paper 966, doi:10.3390/atmos12080966.
 2. Wang, L., Shi, J., A comprehensive application of machine learning techniques for short-term solar radiation prediction. *Appl. Sci.* **11** (2021), paper 5808, doi:10.3390/app11135808.
 3. Lin, B., Shi, L., New understanding of power generation structure transformation, based on a machine learning predictive model. *Sustain. Energy Technol. Assess.* **51** (2022), paper 101962, doi:10.1016/j.seta.2022.101962.
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 1. Krinitskiy, M., Aleksandrova, M., Verezemskaya, P., Gulev, S., Sinitsyn, A., Kovaleva, N., Gavrikov, A., On the generalization ability of data-driven models in the problem of total cloud cover retrieval. *Remote Sens.* **13** (2021), paper 326, doi:10.3390/rs13020326.

2. Grönquist, P., Yao, C., Ben-Nun, T., Dryden, N., Dueben, P., Li, S., Hoefler, T., Deep learning for post-processing ensemble weather forecasts. *Phil. Trans. R. Soc. A* **379** (2021), paper 20200092, doi:10.1098/rsta.2020.0092.
 3. Dupuy, F., Mestre, O., Serrurier, M., Kivachuk Burdá, V., Zamo, M., Cabrera-Gutiérrez, M. C., Bakkay, M. C., Jouhaud, J-C., Mader, M-A., Oller, G., ARPEGE cloud cover forecast postprocessing with convolutional neural network. *Wea. Forecasting* **36** (2021), 567–586.
 4. Bączkiewicz, A., Wątróbski, J., Sałabun, W., Kołodziejczyk, J. An ANN model trained on regional data in the prediction of particular weather conditions. *Appl. Sci.* **11** (2021), paper 4757, doi:10.3390/app11114757.
 5. Sonnewald, M., Lguensat, R., Jones, D. C., Dueben, P. D., Brajard, J., Balaji, V., Bridging observations, theory and numerical simulation of the ocean using machine learning. *Environ. Res. Lett.* **16** (2021), paper 073008, doi:10.1088/1748-9326/ac0eb0.
 6. Dai, Y., Hemri, S., Spatially coherent postprocessing of cloud cover ensemble forecasts. *Mon. Weather Rev.* **149** (2021), 3923–3937.
 7. Hensel, S., Marinov, M. B., Koch, M., Arnaudov, D., Evaluation of deep learning-based neural network methods for cloud detection and segmentation. *Energies* **14** (2021), paper 6156, doi:10.3390/en14196156.
6. Giacomelli Sobrinho, V., Lagutov, V., Baran, S., Green with savvy? Brazil’s climate pledge to the Paris Agreement and its transition to the Green Economy. *Energy and Climate Change* **1** (2020), paper 100015, doi:10.1016/j.egycc.2020.100015.
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B) PUBLISHED CONTRIBUTIONS TO CONFERENCES

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3. Baran, Á., Baran, S., On the weak convergence of a continuous state space simulated annealing. Kovács, E., Winkler, Z. (ed.) *Proceedings of the 4th International Conference on Applied Informatics*, Eger–Noszvaj, Hungary, August 30–September 3, 1999. Molnár és társa, Eger, 2001, 231–240.
4. Fazekas, I., Lauridsen, J., Baran, S., Asymptotic properties of an estimator in spatial errors-in-variables models in the presence of validation data. Kovács, E. et al. (ed.) *Proceedings of the 3rd International Conference on Applied Informatics*, Eger–Noszvaj, Hungary, August 25–28, 1997. Nyomda Kft., Eger, 1999, 59-68.
5. Baran, S., Szabó, Á., An application of simulated annealing to ML-estimation of a partially observed Markov chain. Kovács, E. et al. (ed.) *Proceedings of the 3rd International Conference on Applied Informatics*, Eger–Noszvaj, Hungary, August 25–28, 1997. Nyomda Kft., Eger, 1999, 85–95.

1. Verdes, E., *The π^* index: computation, characterization and application of a new goodness of fit measure*. Ph.D. thesis, University of Debrecen, 2001.
2. Goldstein, P., Karaga, M., Kosor, M., Nizetić, I., Tadić, M., Vlah, D., Hidden Markov models and multiple alignments of protein sequences. In Drmać, Z. et al. (eds.), *Proceedings of the Conference on Applied Mathematics and Scientific Computing*, Springer, Dordrecht, 2005, pp. 187–196.
6. Baran, S., Estimating the transition matrix of a finite state space Markov chain with MATLAB. *Proc. of the Workshop on Statistics at Universities: Its Impact for Society*, Eötvös University Press, Budapest, 1997, 29–34.

C) LECTURE NOTES

1. Baran, S., *Exercises on testing hypotheses*. mobiDIÁK Electronic Publications, University of Debrecen, 2005. <http://mobidiak.inf.unideb.hu>. (in Hungarian)
2. Baran S., Fazekas I., Gelvitzky B., Iglói E., Ispány M., Kalmár I., Nagy M., Tar L., Verdes E., *Introduction to Mathematical Statistics*. Kossuth University Press, Debrecen, 1997, 523 pages. (Chapter X., pp. 345–380., in Hungarian)
 1. Óvári, M., Zárny, Gy., Danzer, K. and Thiel, G., Investigation of distribution of beryllium, nickel and vanadium in subsoil of Csepel-Island. *Microchemical J.* **67** (2000), 249–256.

D) SOFTWARE

1. Yuen, R. A., Baran, S., Fraley, C., Gneiting, T., Lerch, S., Scheuerer, M., Thorarinsdottir, T. L., *R package ensembleMOS, Version 0.8.2: Ensemble Model Output Statistics* (2018). Available at: <https://cran.r-project.org/package=ensembleMOS>
 1. Barnes, C., Chandler, R. E., Brierley, C. M., New approaches to postprocessing of multi-model ensemble forecasts. *Q. J. R. Meteorol. Soc.* **145** (2019), 3479–3498.
 2. Le Gal La Salle, J., Badosa, J., David, M., Pinson, P., Lauret, P., Added-value of ensemble prediction system on the quality of solar irradiance probabilistic forecasts. *Renew. Energy* **162** (2020), 1321–1339.
 3. Wang, D., Wang, P., Wang, C., Zhuang, S., Shi, J., A conformal prediction inspired approach for distribution regression with random Fourier features. *Appl. Soft Comput.* **97** (2020), paper 106807, doi:10.1016/j.asoc.2020.106807.
 4. Medina, H., Tian, D., Comparison of probabilistic post-processing approaches for improving numerical weather prediction-based daily and weekly reference evapotranspiration forecasts. *Hydrol. Earth Syst. Sci.*, **24** (2020), 1011–1030.

5. Javanshiri, Z., Fathi, M., Mohammadi, S. A., Comparison of the BMA and EMOS statistical methods for probabilistic quantitative precipitation forecasting. *Meteorol. Appl.* **28** (2021), paper e1974, doi:10.1002/met.1974.
6. Le Gal La Salle, J., *Qualité et valeur des prévisions solaires probabilistes*. PhD thesis, Université de La Réunion, 2021.

E) CONFERENCE TALKS

1. *Optimal designs for complex Ornstein-Uhlenbeck processes*. Modern Stochastic: Theory and Applications V, Kyiv, Ukraine, June 1–4, 2021 (online, invited plenary).
2. *Statistical calibration of ensemble forecasts of heat indices*. Joint SRNWP-EPS and Post-processing workshop 2020, October 27–30 2020, BlueJeans video-conference meeting (invited plenary).
3. *Statistical methods in weather forecasting*. 11th International Conference on Applied Informatics, Eger, Hungary, January 29–31, 2020 (invited plenary).
4. *Statistical post-processing of water level forecasts*. 12th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2019), London, United Kingdom, December 14 – 16, 2019 (invited).
5. *Statistical post-processing of dual-resolution ensemble forecasts*. EGU General Assembly 2019, Vienna, Austria, April 8 – 12, 2019 (invited).
6. *Similarity-based semilocal estimation of post-processing models*. IX. International Workshop on Applied Probability (IWAP 2018), Budapest, Hungary, June 18 – 21, 2018.
7. *Combining predictive distributions for calibration of ensemble forecasts for precipitation accumulation*. 13th German Probability and Statistics Days, Freiburg, Germany, February 27 – March 2, 2018.
8. *Combining predictive distributions for calibration of ensemble forecasts for wind speed*. XXXIV. International Seminar on Stability Problems for Stochastic Models, Debrecen, Hungary, August 25–29, 2017.
9. *Statistical post-processing of ensemble forecasts for precipitation accumulation*. TIES-GRASPA 2017, Bergamo, Italy, July 24–26, 2017 (invited).
10. *Mixture EMOS model for calibrating ensemble forecasts of wind speed*. 12th German Probability and Statistics Days, Bochum, Germany, March 1–4, 2016.

11. *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 (invited).
12. *Log-normal distribution based EMOS models for probabilistic wind speed forecasting.* European Meeting of Statisticians, Amsterdam, The Netherlands, July 6–10, 2015.
13. *Joint calibration of temperature and wind speed forecasts using Bayesian Model Averaging.* 12th Workshop on Stochastic Models, Statistics and Their Applications, Wroclaw, Poland, February 16–20, 2015.
14. *Probabilistic methods in wind speed forecasting.* Latin American Congress of Statistical Societies (CLATSE2014), La Serena, Chile, October 20–23, 2014 (invited plenary).
15. *Comparison of BMA and EMOS statistical calibration methods for ensemble weather prediction.* 3rd Stochastic Modeling Techniques and Data Analysis International Conference (SMTDA2014), Lisbon, Portugal, June 11–14, 2014.
16. *Statistical post-processing of ensemble forecasts.* ECMI workshop on “The mathematics of air pollution”, Budapest, Hungary, May 26–27, 2014 (invited plenary).
17. *Probabilistic wind speed forecasting using Bayesian model averaging with truncated normal components.* 11th German Probability and Statistics Days, Ulm, Germany, March 4–7, 2014.
18. *Statistical calibration of ensemble forecasts.* 9th International Conference on Applied Informatics, Eger, Hungary, January 29–February 1, 2014.
19. *Probabilistic temperature forecasting with statistical calibration in Hungary.* 29th European Meeting of Statisticians, Budapest, Hungary, July 20–25, 2013.
20. *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.
21. *Parameter estimation and testing stability in a spatial unilateral autoregressive model.* Modern Stochastic: Theory and Applications III, Kyiv, Ukraine, September 10–14, 2012 (invited).
22. *Parameter estimation in linear regression driven by a Gaussian random field.* 8th World Congress in Probability and Statistics, Istanbul, Turkey, July 9–14, 2012.
23. *Probabilistic wind speed prediction in Hungary.* 10th German Probability and Statistics Days, Mainz, Germany, March 6–9, 2012.

24. *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.
25. *Parameter estimation in a spatial unit root autoregressive model.* Applied Stochastic Models and Data Analysis (ASMDA2011), Rome, Italy, June 7–10, 2011.
26. *Asymptotic inference of a spatial unit root autoregressive model.* Modern Stochastic: Theory and Applications II, Kyiv, Ukraine, September 7–11, 2010 (invited).
27. *Parameter estimation in a spatial unit root autoregressive model.* 10th International Vilnius Conference on Probability Theory and Mathematical Statistics, Vilnius, Lithuania, June 28–July 2, 2010.
28. *On the covariance structure of an unstable unilateral spatial autoregressive model.* 27th European Meeting of Statisticians, Toulouse, France, July 20–24, 2009.
29. *Parameter estimation in unstable unilateral spatial autoregressive models.* Probability and Statistics with Applications, Debrecen, Hungary, June 8–12, 2009.
30. *Risk estimation in Down's syndrome screening.* XXVIII. International Seminar on Stability Problems for Stochastic Models, Zakopane, Poland, May 31–June 5, 2009.
31. *Asymptotic inference for a one-dimensional simultaneous autoregressive model.* Barcelona Conference on Asymptotic Statistics, Barcelona, Spain, September 1–5, 2008.
32. *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.
33. *Mean estimation of a shifted Wiener sheet.* 5th International Conference on Levy Processes: Theory and Applications, Copenhagen, Denmark, August 13–17, 2007 (poster).
34. *Prediction of macroeconomic quantities using stochastic models.* Applied Mathematics and Scientific Computing, Brijuni, Croatia, July 9–13, 2007.
35. *An estimator for nonlinear regression models.* XXVI. International Seminar on Stability Problems for Stochastic Models, Sovata-Bai, Romania, August 27–September 2, 2006.
36. *Mean estimation of the Wiener sheet.* 26th European Meeting of Statisticians, Torun, Poland, July 24–28, 2006.
37. *Asymptotic inference for unstable spatial AR models.* 9th International Vilnius Conference on Probability Theory and Mathematical Statistics, Vilnius, Lithuania, June 25–30, 2006.

38. *Asymptotic inference for unit roots in spatial autoregression.* 25th European Meeting of Statisticians, Oslo, Norway, July 24–28, 2005.
39. *Prediction of Hungarian mortality rates using Lee-Carter method.* Applied Mathematics and Scientific Computing, Brijuni, Croatia, June 19–24, 2005.
40. *A consistent estimator for nonlinear regression models.* COMPSTAT 2004, Prague, Czech Republic, August 23–27, 2004 (poster).
41. *Asymptotic inference for a nearly unstable sequence of stationary spatial AR models.* Third Croatian Congress of Mathematics, Split, Croatia, June 16–18, 2004.
42. *Parameter estimation in linear measurement error models.* Workshop Risk Analysis and Other Applications of Statistics, Budapest, Hungary, April 13–14, 2004.
43. *Estimating the risk of a Down's syndrome term pregnancy using age and serum markers.* 6th International Conference on Applied Informatics, Eger, Hungary, January 27–31, 2004.
44. *Asymptotic inference for an unstable triangular spatial AR model.* Statistical Inference in Linear Models, Bedlewo, Poland, August 21–27, 2003.
45. *An application of stochastic optimization in earth sciences.* Applied Mathematics and Scientific Computing, Brijuni, Croatia, June 23–27, 2003.
46. *A consistent estimator for linear measurement error models.* 24th European Meeting of Statisticians 2002, Prague, Czech Republic, August 19–23, 2002.
47. *Estimation of the mean of a Wiener sheet.* 23rd European Meeting of Statisticians 2001, Funchal, Madeira, Portugal, August 13–19, 2001.
48. *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.
49. *A new estimator in linear measurement error models.* STAT'2000, International Conference on Mathematical Statistics, Szklarska Poreba, Poland, August 21–25, 2000.
50. *Estimation of the mean of Ornstein-Uhlenbeck processes.* Fourth Meeting of Austrian, Slovenian, Italian and Hungarian Young Statisticians, Pécs, Hungary, October 8–10, 1999 (invited).
51. *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.

52. *On the weak convergence of a continuous state space simulated annealing.* 4th International Conference on Applied Informatics, Eger–Noszvaj, Hungary, August 30–September 3, 1999.
53. *Application of limit theorems for errors-in-variables models.* Colloquium on Limit Theorems of Probability and Statistics, Balatonlelle, Hungary, June 28–July 2, 1999.
54. *On functionals of complex Ornstein-Uhlenbeck processes.* Austrian, Hungarian, and Slovenian Joint Meeting of Young Statisticians, Piran, Slovenia, October 9–11, 1998 (invited).
55. *An Application of simulated annealing to ML-estimation of a partially observed Markov Chain.* 3rd International Conference on Applied Informatics, Eger–Noszvaj, Hungary, August 24–28, 1997.
56. *Asymptotic properties in space and time of an estimator in errors-in-variables models in the presence of validation data.* 10th European Young Statistician Meeting, Warsaw, Poland, August 18–22, 1997 (invited).