

Списък на научните трудове за участие в конкурса

- [1] A. Dembinska, N.I. Nikolov, and E. Stoimenova. Reliability properties of k-out-of-n systems with one cold standby unit. *Journal of Computational and Applied Mathematics*, 388:113289, 2021.
- [2] S. Angelov and E. Stoimenova. Cross-validated sequentially constructed multiple regression with centered predictors. In *Advanced Computing in Industrial Mathematics: 13th Annual Meeting of the Bulgarian Section of SIAM, December 18-20, 2018, Sofia, Bulgaria, Revised Selected Papers*, pp 10–15. Springer, 2021.
- [3] N.I. Nikolov and E. Stoimenova. Rank data clustering based on lee distance. In *Advanced Computing in Industrial Mathematics: 13th Annual Meeting of the Bulgarian Section of SIAM, December 18-20, 2018, Sofia, Bulgaria, Revised Selected Papers*, pp 303–312. Springer, 2021.
- [4] N.I. Nikolov and E. Stoimenova. Mallows' models for imperfect ranking in ranked set sampling. *ASTA Advances in Statistical Analysis*, 104:459–484, 2020.
- [5] S. Angelov and E. Stoimenova. Cross-Validated Sequentially Constructed Multiple Regression. In K. Georgiev, M. Todorov, and I. Georgiev, editors, *Advanced Computing in Industrial Mathematics*, pp 13–22. Springer, Cham, 2019.
- [6] N. I. Nikolov and E. Stoimenova. Asymptotic properties of Lee distance. *Metrika*, 82 (3):385–408, 2019.
- [7] N. I. Nikolov and E. Stoimenova. EM Estimation of the Parameters in Latent Mallows' Models. In K. Georgiev, M. Todorov, and I. Georgiev, editors, *Advanced Computing in Industrial Mathematics*, pp 317–325. Springer, Cham, 2019.
- [8] S. Angelov and E. Stoimenova. Prediction error in multiple regression model. *Computer Science and Education in Computer Science*, 13:329–347, 2017.
- [9] E. Stoimenova. Comparison of partially ranked lists. *Austrian Journal of Statistics*, 46:107–115, 2017.
- [10] E. Stoimenova. Power of exceedance-type tests against location shift alternative. *PLISKA, Stud. Math.*, 27:91–102, 2017.
- [11] E. Stoimenova and N. Balakrishnan. Sidak-type tests for the two-sample problem based on precedence and exceedance statistics. *Statistics*, 51:2:247–264, 2017.
- [12] T. Zaeveski, O. Kounchev, D. Palejev, and E. Stoimenova. Spectral clustering of multidimensional genetic data. *Annual of Sofia University St. Kliment Ohridski. Faculty of Mathematics and Informatics*, 104:201–215, 2017.
- [13] E. Stoimenova. Rank tests for multi-sample location problem. In S. Aivazian, P. Filzmoser, and Yu. Kharin, editors, *Computer Data Analysis and Modeling*, volume 1 of *Proceedings of the 10-th Intern. Conf. Minsk*, pp 105–111, Minsk, 2013. Publ. center of BSU.
- [14] E. Stoimenova. Power of exceedance-type tests under Lehmann alternatives. *Communications in Statistics – Theory and Methods*, 40 (4):731–744, 2011.
- [15] E. Stoimenova and N. Balakrishnan. A class of exceedance-type statistics for the two-sample problem. *Journal of Statistical Planning and Inference*, 141 (9):3244–3255, 2011.
- [16] E. Stoimenova and N. Balakrishnan. On the joint distribution of precedences and exceedances for the two-sample problem. *Austrian Journal of Statistics*, 40 (1& 2):157–166, 2011.

- [17] E. Stoimenova. Joint distribution of precedences and exceedances in two-sample model. *Compt. Rend. Acad. Bulg. Sci.*, 63 (3):331–338, 2010.
- [18] E. Stoimenova. Exceedance-type test against Lehmann alternatives. In C. Skiadas L. Sakalauskas and E. K. Zavadskas, editors, *ASMDA-2009 Selected papers*, The XIII International Conference “Applied Stochastic Models and Data Analysis”, pp 432–436, Vilnius, 2009. Institute of Mathematics and Informatics.
- [19] E. Stoimenova and G. N. Boshnakov. Power of rank tests against location shift alternative. In F. Cole, F. Mallor, E. Omey, and S. Van Gulck, editors, *Proceedings of the seventh International Conference on Simulation in Industry and Services*, pp 117–135, Pamplona, Spain, 2009. Universidad Publica de Navarra.
- [20] E. Stoimenova. Empirical density estimation for interval censored data. *Austrian Journal of Statistics*, 37:119–128, 2008.
- [21] E. Stoimenova. Exceedance-type statistic under Lehmann alternatives. *Compt. Rend. Acad. Bulg. Sci.*, 61 (12):1517–1524, 2008.
- [22] E. Stoimenova. Nadaraya-Watson density estimation for interval censored data. In S. Aivazian, P. Filzmoser, and Yu. Kharin, editors, *Computer Data Analysis and Modeling*, volume 1 (Plenary lectures) of *Proceedings of the 8-th Intern. Conf. Minsk*, pages 104–107, Minsk, 2007. Publ. center of BSU.
- [23] E. Stoimenova. Two-sample rank tests based on exceeding observations. *Applications of Mathematics*, 52(4):345–352, 2007.
- [24] E. Stoimenova. Evaluating the risk in selection problems. *PLISKA, Stud. Math. Bulg.*, 13:195–198, 2000.
- [25] E. Stoimenova. Rank tests based on exceeding observations. *Ann. Inst. Stat. Math.*, 52(2):255–266, 2000.
- [26] E. Stoimenova. On statistical properties of Chebyshev’s norm. *Stat. Probab. Lett.*, 29(1):89–93, 1996.
- [27] E. Stoimenova. Testing for a trend in partial rankings. *Statistics*, 27:339–343, 1996.
- [28] E. Stoimenova. On the LFC natural classification rule under a new loss function. *Statistics & Decisions*, 13:39–51, 1995.
- [29] L. Nguyen-Tuan, Y. Lins, E. Stoimenova, M. Datcheva, and T. Schanz. Experiments and numerical modelling of air-water flow in unsaturated soils with hysteresis and air entrapment. *Journal of Theoretical and Applied Mechanics*, 54:103–123, 2024.
- [30] L. Nguyen-Tuan, T. Lahmer, M. Datcheva, E. Stoimenova, and T. Schanz. A novel parameter identification approach for buffer elements involving complex coupled thermo-hydro-mechanical analyses. *Computers and Geotechnics*, pp 23–32, 2016.
- [31] Atanas Radenski, Todor Gurov, Kalinka Kaloyanova, Nikolay Kirov, Maria Nisheva, Peter Stanchev, and Eugenia Stoimenova. Big data techniques, systems, applications, and platforms: Case studies from academia. In M. Ganzha, L. Maciaszek, and M. Paprzycki, editors, *Proceedings of the 2016 Federated Conference on Computer Science and Information Systems*, volume 8 of *Annals of Computer Science and Information Systems*, pp 883–888. IEEE, 2016.
- [32] L. Nguyen-Tuan, T. Lahmer, M. Datcheva, E. Stoimenova, and T. Schanz. Parameter identification applying in complex thermo-hydro-mechanical problems like the design of buffer elements. In

- K. Guerlebeck and T. Lahmer, editors, *Proceedings of the 20th International Conference on the Application of Computer Science and Mathematics in Civil Engineering*. Weimar, Germany, 2015.
- [33] L. Nguyen-Tuan, T. Schanz, M. Datcheva, and E. Stoimenova. Parameter identification for a thermo-hydro-mechanical model of the buffer material: Stochastic based back analysis. In Michael A. Hicks, Ronald B.J. Brinkgreve, and Alexander Rohe, editors, *Numerical Methods in Geotechnical Engineering*, volume 1, pp 1001 – 1006. CRC Press, 2014.
 - [34] A. Yanakieva, M. Datcheva, and E. Stoimenova. Statistical analysis of the effect of epoxy insulated steel bar on the pull-out bonding. *Compt. Rend. Acad. Bulg. Sci.*, 64:1035–1042, 2011.
 - [35] M. Kartalev, M. Dryer, K. Grigorov, and E. Stoimenova. Solar wind polytropic index estimates based on single spacecraft plasma and interplanetary magnetic field measurements. *Journal of Geophysical Research - Space Physics*, 111, No. A10, A10107:1–16, 2006.
 - [36] E. Stoimenova, Y. Lins, M. Datcheva, and T. Schanz. Inverse modelling of soil hydraulic characteristic functions. In K. Guerlebeck and C. Koenke, editors, *Proceedings of the 17th International Conference on the Application of Computer Science and Mathematics in Architecture and Civil Engineering*. Weimar, Germany, 2006.
 - [37] E. Stoimenova, M. Datcheva, and T. Schanz. Statistical approach in soil-water characteristic curve modeling. In T. Schanz, editor, *Unsaturated Soils Numerical and Theoretical Approaches*, volume 94/II of *Springer Proceedings in Physics*, pp 189–200, Berlin, 2005. Springer-Verlag.
 - [38] E. Stoimenova, M. Datcheva, and T. Schanz. Application of two-phase regression to geotechnical data. *Pliska Stud. Math. Bulgar.*, 16:245–257, 2004.
 - [39] P. Mateev and E. Stoimenova. Generalized scaling factor for estimating the activity concentrations of difficult-to-measure nuclides. *Pliska Stud. Math. Bulgar.*, 14:81–89, 2003.
 - [40] P. Mateev and E. Stoimenova. Estimating the activity concentrations of difficult-to-measure nuclides. In V. Nikolaev, editor, *Nuclear Theory - Proceedings of the XXI International Workshop on Nuclear Theory*, pp 85–91, Sofia, Bulgaria, 2002. Heron Press Science Series.
 - [41] E. Stoimenova and R. Vassileva. The effect of test components weighting on reliability. In *Mathematics and Education in Mathematics, Proc. 32th Conf. of the Union of Bulgarian Mathematicians*, pp 291–296, 2003.
 - [42] П. Матеев и Е. Стоименова. Надеждност и коректно оценяване на изпити и тестове. In *Математика и математическо образование, 30-та Пролетна конференция на съюза математиците в България*, pp 95–102, 2001.
 - [43] Е. Стоименова. *Измерителни качества на тестове*. Нов български университет, 2000.