

Díjazott publikációk, Informatikai Kar, 2021

Folyóiratcikkek, Q1

1. Aldabbas, A., **Gál, Z.**, Ghorri, K., Imran, M., Shoaib, M.: Deep Learning-Based Approach for Detecting Trajectory Modifications of Cassini-Huygens Spacecraft. *IEEE Access* **9** 39111-39125, 2021.
2. Arany, P., **Papp, I.**, **Bodroginé Zichar, M.**, Regdon, G., Béres, M., Szalóki, M., Kovács, R., Fehér, P., Ujhelyi, Z., Vecsernyés, M., Bácskay, I.: Manufacturing and Examination of Vaginal Drug Delivery System by FDM 3D Printing. *Pharmaceutics* **13** (10), 1-20, 2021.
3. **Baran, Á.**, Lerch, S., El Ayari, M., **Baran, S.**: Machine learning for total cloud cover prediction. *Neural Comput. Appl.* **33** 2605-2620, 2021.
4. Bankó, C., Nagy, Z., Nagy, M., Szemán-Nagy, G., Rebenku, I., Imre, L., **Tiba, A.**, **Hajdu, A.**, Szöllősi, J., Kéki, S., Bacsó, Z.: Isocyanide Substitution in Acridine Orange Shifts DNA Damage-Mediated Phototoxicity to Permeabilization of the Lysosomal Membrane in Cancer Cells. *Cancers (Basel)* **13** (22), 1-24, 2021.
5. Barkat, A., Bouaicha, F., Bouteraa, O., Mester, T., Ata, B., **Balla, D.**, Rahal, Z., Szabó, G.: Assessment of Complex Terminal Groundwater Aquifer for Different Use of Oued Souf Valley (Algeria) Using Multivariate Statistical Methods, Geostatistical Modelling and Water Quality Index. *Water* **13** (11), 1-26, 2021.
6. **Besenczi, R.**, Báfai, N., **Jeszenszky, P.**, **Major, S.**, Monori, F., **Ispány, M.**: Large-scale simulation of traffic flow using Markov model. *PLoS One* **16** (2), 1-31, 2021.
7. Csapó, G., Sebestyén, K., **Csernoch, M.**, Abari, K.: Case study: developing long-term knowledge with Sprego. *Educ. Inf. Technol.* **26** (1), 965-982, 2021.
8. **Csernoch, M.**, **Biró, P.**, Máth, J.: Developing computational thinking skills with algorithm-driven spreadsheeting. *IEEE Access.* **9** 153943-153959, 2021.
9. Fábri, C., **Halász, G.**, Cederbaum, L., Vibók, Á.: Born-Oppenheimer approximation in optical cavities: from success to breakdown. *Chem. Sci.* **12** (4), 1251-1258, 2021.
10. Fábri, C., **Halász, G.**, Cederbaum, L., Vibók, Á.: Signatures of light-induced nonadiabaticity in the field-dressed vibronic spectrum of formaldehyde. *J. Chem. Phys.* **154** (12), 1-13, 2021.
11. **Gál, Z.**, **Kocsis, G.**, Tajti, T., **Tornai, R.**: Performance evaluation of massively parallel and high speed connectionless vs. connection oriented communication sessions. *Adv. Eng. Softw.* **157-158** 1-20, 2021.
12. Mester, T., Szabó, G., **Balla, D.**: Assessment of shallow groundwater purification processes after the construction of a municipal sewerage network. *Water* **13** (14), 1-21, 2021.
13. Papp, G., **Hoffmann, M.**, **Papp, I.**: Improved Embedding of QR Codes onto Surfaces to be 3D Printed. *Comput.-Aided Des.* **131** 1-10, 2021.
14. Prezotti Filho, P., Reisen, V., Bondon, P., **Ispány, M.**, Melo, M., Serpa, F.: Aperiodic and seasonal statistical model for non-negative integer-valued time series with an application to dispensed medications in respiratory diseases. *Appl. Math. Model.* **96** 545-558, 2021.
15. Rao Jammalamadaka, S., Taufer, E., **Terdik, G.**: Asymptotic theory for statistics based on cumulant vectors with applications. *Scand. J. Stat.* **48** (2), 708-728, 2021.
16. Schulz, B., El Ayari, M., Lerch, S., **Baran, S.**: Post-processing numerical weather prediction ensembles for probabilistic solar irradiance forecasting. *Sol. Energy* **220** 1016-1031, 2021.

Folyóiratcikkek, Q2

1. Aldabbas, A., **Gál, Z.**: Cassini-Huygens mission images classification framework by deep learning advanced approach. *Int. J. Electr. Comp. Eng.* **11** (3), 2457-2466, 2021.
2. **Baran, S.**, **Szokol, P.**, Szabó, M.: Truncated generalized extreme value distribution-based ensemble model output statistics model for calibration of wind speed ensemble forecasts.

- Environmetrics* **32** (6), 1-24, 2021.
3. Bordihn, H., **Vaszil, G.**: Reversible parallel communicating finite automata systems. *Acta Inform.* **58** (4), 263-279, 2021.
 4. Csoba, I., **Kunkli, R.**: Efficient Rendering of Ocular Wavefront Aberrations using Tiled Point-Spread Function Splatting. *Comput. Graph. Forum* **40** (6), 182-199, 2021.
 5. Efrosinin, D., Stepanova, N., **Sztrik, J.**: Algorithmic Analysis of Finite-Source Multi-Server Heterogeneous Queueing Systems. *Mathematics* **9** (20), 1-24, 2021.
 6. **Fazekas, I., Barta, A.**: A Continuous-Time Network Evolution Model Describing 2- and 3-Interactions. *Mathematics* **9** (23), 1-26, 2021.
 7. **Gilányi, A., Lewicka, A.**: On linear functional equations modulo Z . *Aequ. Math.* **95** (6), 1301-1311, 2021.
 8. Kiss, E., Fazekas, I., **Balla, D.**: A klímaváltozással kapcsolatos fogalmi hálók feltárása a kiválasztott Hajdú-Bihar megyei településcsoportokban. *Ter. Stat.* **61** (5), 605-630, 2021.
 9. Kiss, E., Fazekas, I., **Balla, D.**: Investigation of conceptual networks related to climate change among inhabitants: A case study in Eastern Hungarian settlements with word association method. *East. Eur. Countrys.* **27** (1), 147-178, 2021.
 10. **Kruppa, K.**: Applying Rational Envelope curves for skinning purposes. *Front. Inform. Technol. Elect. Eng.* **22** 202-209, 2021.
 11. **Kruppa, K., Kunkli, R., Hoffmann, M.**: Possibilities and Advantages of Rational Envelope and Minkowski Pythagorean Hodograph Curves for Circle Skinning. *Mathematics* **9** (8), 1-13, 2021.
 12. Melikov, A., Aliyeva, S., **Sztrik, J.**: Retrial Queues with Unreliable Servers and Delayed Feedback. *Mathematics* **9** (19), 1-23, 2021.
 13. Melikov, A., Aliyeva, S., **Sztrik, J.**: RQwDFB: analysis of retrial queues with delayed feedback. *Miskolc Math. Notes.* **22** (2), 769-782, 2021.
 14. Nagy, T., **Csernoch, M., Biró, P.**: The Comparison of Students' Self-Assessment, Gender, and Programming-Oriented Spreadsheet Skills. *Education Sciences* **11** (10), 1-29, 2021.
 15. Nsaif, M., Kovásznai, G., **Rácz, A., Malik, A., de Fréin, R.**: An Adaptive Routing Framework for Efficient Power Consumption in Software-Defined Datacenter Networks. *Electronics (Switzerland)* **10** (23), 1-18, 2021.
 16. **Pethő, A.**: On k -generalized Fibonacci numbers with negative indices. *Publ. Math. Debr.* **98** (3-4), 401-418, 2021.
 17. **Sütő, J.**: Embedded System-Based Sticky Paper Trap with Deep Learning-Based Insect-Counting Algorithm. *Electronics* **10** (15), 1-13, 2021.

Konferencia cikkek B

1. **Husztai, A., Kovács, S., Oláh, N.**: Hybrid anonymous message broadcast for VANETs. In: 17th International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob), IEEE, Piscataway, 103-108, 2021. ISBN: 9781665428545