

PUBLICATIONS

1. E. Burkus, **Á. Odry**, I. Kecskés, V. Tadic, P. Odry, "A Novel Leg Design for the Szabad(ka) III Robot," 2020 IEEE 18th International Symposium on Intelligent Systems and Informatics (SISY 2020), 2020, pp. 95-100, doi: 10.1109/SISY50555.2020.9217077.
2. **Á. Odry**, I. Kecskés, P. Sarcevic, Z. Vizvari, A. Toth, and P. Odry, "A Novel Fuzzy-adaptive Extended Kalman Filter for Real-time Attitude Estimation of Mobile Robots," **Sensors** 20(3), 2020, pp. 803, doi: 10.3390/s20030803.
3. **Á. Odry**, R. Fullér, I. J. Rudas, and P. Odry, "Fuzzy control of self-balancing robots: A control laboratory project," **Computer Applications in Engineering Education** 28(3), 2020, pp. 512-535, doi: 10.1002/cae.22219.
4. V. Tadic, **Á. Odry**, E. Burkus, I. Kecskés, Z. Kiraly, P. Odry, "Edge-Preserving Filtering and Fuzzy Image Enhancement in Depth Images captured by RealSense Cameras in Robotic Applications," **Advances in Electrical and Computer Engineering** 20 (3), 2020, pp. 83-92, doi: 10.4316/AECE.2020.03010.
5. V. Tadic, **Á. Odry**, A. Toth, Z. Vizvari, P. Odry, "Fuzzified Circular Gabor Filter for Circular and Near-Circular Object Detection," **IEEE Access** 8, 2020, pp. 96706 – 96713, doi: 10.1109/ACCESS.2020.2995553.
6. Z. Vizvari, A. Toth, Z. Sari, M. Klincsik, B. Kuljic, T. Szakall, **Á. Odry**, K. Mathe, I. Szabo, Z. Karadi, P. Odry, "Measurement system with real time data converter for conversion of I2S data stream to UDP protocol data," **Heliyon** 6 (4), 2020, pp. e03760, doi: 10.1016/j.heliyon.2020.e03760.
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8. V. Tadić, E. Burkus, **Á. Odry**, I. Kecskés, Z. Kiraly, P. Odry, "Effects of the Post-processing on Depth Value Accuracy of the Images Captured by RealSense Cameras," **Contemporary Engineering Sciences** 13 (1), 2020, pp. 149-156, doi: 10.12988/ces.2020.91454.
9. I Kecskés, **Á. Odry**, P. Odry, "Uncertainties in the movement and measurement of a hexapod robot," 15th International Conference on DYNAMICAL SYSTEMS Theory and Applications (DSTA 2019), Abstracts, 2019, pp. 287-287, ISBN:9788366287280.
10. N. Gyorfi, L. Nadasdi, A. Toth, M. Klincsik, Z. Sari, B. Kuljic, **Á. Odry**, P. Odry, Z. Vizvari, "A Modified Cole-Cole Model used in the Evaluation of Low-Frequency Electrical Impedance Spectroscopy Measurements," **International Journal of Systems Applications, Engineering & Development** 13, 2019, pp. 195-199, ISSN: 2074-1308.
11. L. Nadasdi, N. Gyorfi, A. Toth, M. Klincsik, Z. Sari, B. Kuljic, **Á. Odry**, P. Odry, Z. Vizvari, "An Effective and Robust Self-developed Method in Support of Measuring the Cole-Cole Parameters," **International Journal of Systems Applications, Engineering & Development** 13, 2019, pp. 183-186, ISSN: 2074-1308.
12. V. Tadic, **Á. Odry**, I. Kecskés, E. Burkus, Z. Király, P. Odry, "Application of Intel RealSense Cameras for Depth Image Generation in Robotics," **WSEAS Transactions on Computers** 18, 2019, pp. 107-112, E-ISSN: 2224-2872.
13. **Á. Odry**, R. Fullér, I. J. Rudas, and P. Odry, "Kalman filter for mobile-robot attitude estimation: Novel optimized and adaptive solutions," **MECHANICAL SYSTEMS AND SIGNAL PROCESSING** 110, 2018, pp. 569-589, doi: 10.1016/j.ymsp.2018.03.053.
14. **Á. Odry** and R. Fullér, "Comparison of Optimized PID and Fuzzy Control Strategies on a Mobile Pendulum Robot," 2018 IEEE 12th International Symposium on Applied Computational Intelligence and Informatics (SACI 2018), 2018, pp. 207-212, doi: 10.1109/SACI.2018.8440947.
15. **Á. Odry**, I. Kecskés, E. Burkus and P. Odry, "Protective Fuzzy Control of a Two-Wheeled Mobile Pendulum Robot: Design and Optimization," **WSEAS TRANSACTIONS ON SYSTEMS AND CONTROL** 12, 2017, pp. 297-306, E-ISSN: 2224-2856.
16. P. Odry, M. Klincsik, Z. Sári, Z. Góbor, E. Burkus, I. Kecskés, Z. Király, **Á. Odry**, V. Tadić and Z. Vizvári, "Robust solutions for complex systems," 7th International Conference on Applied Internet and Information Technologies (ICAIT 2017), 2017, pp. 1-9, ISBN: 978-86-7672-304-1
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22. **Á. Odry**, E. Burkus, I. Kecskés, J. Fodor, and P. Odry, "Fuzzy Control of a Two-Wheeled Mobile Pendulum System," 11th IEEE International Symposium on Applied Computational Intelligence and Informatics (SACI 2016), 2016, pp. 99-104, doi: 10.1109/SACI.2016.7507348
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