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## Wykaz publikacji i osiągnięć autora

- JCR artykuły

1. **R. Raj**, and A. Kos, “An improved human activity recognition technique based on convolutional neural network,” *Scientific Reports*, vol. 13, pp. 22581, Dec. 2023. <https://doi.org/10.1038/s41598-023-49739-1> (Published), (Q1-Scopus), [Ministry Point-140].
2. **R. Raj**, and A. Kos, “Intelligent Mobile Robot Navigation in Unknown and Complex Environment Using Reinforcement Learning Technique,” *Scientific Reports*, vol. 14, pp. 22852, Oct. 2024. <https://doi.org/10.1038/s41598-024-72857-3>, (Q1-Scopus), [Ministry Point-140].
3. **R. Raj** and A. Kos, “A Comprehensive Study of Mobile Robot: History, Developments, Applications, and Future Research Perspectives,” *Applied Sciences*, vol. 12, no. 14, p. 6951, Jul. 2022. <https://doi.org/10.3390/app12146951>, (Published), (Q1-Scopus), [Ministry Point-100].
4. **R. Raj** and A. Kos, “An Optimized Energy and Time Constraints-Based Path Planning for the Navigation of Mobile Robots Using an Intelligent Particle Swarm Optimization Technique,” *Applied Sciences*, vol. 13, no. 17, p. 9667, Aug. 2023. <https://doi.org/10.3390/app13179667>, (Published), (Q1-Scopus), [Ministry Point-100].
5. **R. Raj** and A. Kos, “Study of Human–Robot Interactions for Assistive Robots Using Machine Learning and Sensor Fusion Technologies,” *Electronics*, vol. 13, no. 16, p. 3285, Aug. 2024. <https://doi.org/10.3390/electronics13163285>, (Published), (Q2-Scopus), [Ministry Point-100].
6. **R. Raj** and A. Kos, “Discussion on different controllers used for the navigation of mobile robot,” *International Journal of Electronics and Telecommunications*, vol. 70, no. 1, pp. 229-239, March 2024. <https://doi.org/10.24425/ijet.2024.149535>, (Published), (Q3-Scopus), [Ministry Point-70].
7. **R. Raj**, and A. Kos, “Artificial Intelligence: Evolution, Developments, Applications, and Future Scope,” *Przegląd Elektrotechniczny*, vol. 2023, no. 2, pp. 1–13, Feb. 2023. <https://doi.org/10.15199/48.2023.02.01>, (Published), (Q4-Scopus), [Ministry Point-70].
8. **R. Raj**, and A. Kos, “Study and Analysis of Discrete Event-Driven Autonomous System with a Case Study for a Robotics Task,” *Przegląd Elektrotechniczny*, vol. 2023, no. 9, pp. 50-56, Feb. 2023. <https://doi.org/10.15199/48.2023.02.01>, (Published), (Q4-Scopus), [Ministry Point-70].
9. **R. Raj**, and A. Kos, “A Novel Method of Islanding Detection in a Distributed Power Generation System Integrated with Photovoltaic-Array,” *Przegląd Elektrotechniczny*, vol. 2022, no. 7, pp. 88–94, July 2022. <https://doi.org/10.15199/48.2022.07.15>, (Published), (Q4-Scopus), [Ministry Point-70].

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- **Lista artykułów w materiałach konferencyjnych**

10. **R. Raj** and A. Kos, "A Comprehensive Study of Optical Character Recognition," *2022 29th International Conference on Mixed Design of Integrated Circuits and System (MIXDES)*, Wrocław, Poland, 2022, pp. 151-154. <https://doi.org/10.23919/MIXDES55591.2022.9837974>, (Published), [Ministry Point-80].
11. **R. Raj** and A. Kos, "Different Techniques for Human Activity Recognition," *2022 29th International Conference on Mixed Design of Integrated Circuits and System (MIXDES)*, Wrocław, Poland, 2022, pp. 171-176. <https://doi.org/10.23919/MIXDES55591.2022.9838050>, (Published), [Ministry Point-80].
12. **R. Raj** and A. Kos, "Learning the Dynamics of Human Patterns for Autonomous Navigation," *2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG)*, Gdynia, Poland, 2024. <https://doi.org/10.1109/CPE-POWERENG60842.2024.10604363>, (Published), [Ministry Point-20].