

# Jakub Żegleń-Włodarczyk

## Wykaz publikacji drukowanych

- [1] K. Oprzędkiewicz, K. Dziejcz, M. Rosół, and J. Żegleń. Control of the Inverted Pendulum Using Quickly Adjustable, Discrete FOPID Controller. In . Bartoszewicz, J. Kabziński, and J. Kacprzyk, editors, *Advanced, Contemporary Control*, pages 857–869, Cham, 2020. Springer International Publishing.
- [2] K. Oprzędkiewicz, M. Rosół, and J. Żegleń. Fractional Order  $PI^\alpha D^\beta$  Controller for the Inverted Pendulum. In R. Szewczyk, C. Zieliński, and M. Kaliczyńska, editors, *Automation 2020: Towards Industry of the Future*, pages 170–181, Cham, 2020. Springer International Publishing.
- [3] K. Oprzędkiewicz, M. Rosół, and J. Żegleń-Włodarczyk. The Microcontroller Implementation of the Basic Fractional-Order Element. *Pomiary Automatyka Robotyka*, 24(238):19–26, 2020.
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- [8] J. Żegleń-Włodarczyk. Comparison of parallel, cascade and hybrid control structures for Two Rotor Aerodynamical System using FOPID controllers. In *2023 27th International Conference on Methods and Models in Automation and Robotics (MMAR)*, pages 175–180, 2023.
- [9] J. Żegleń-Włodarczyk. FOPID and PID - Comparison of Control Quality and Execution Time on the Example of Two Rotor Aerodynamical System. In R. Szewczyk, C. Zieliński, M. Kaliczyńska, and

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- [10] J. Żegleń-Włodarczyk and K. Dziejic. Optimization of the FOPID parameters of the 3D crane control system by using GWO. In *2021 25th International Conference on Methods and Models in Automation and Robotics (MMAR)*, pages 13–18, 2021.
- [11] J. Żegleń-Włodarczyk and K. Dziejic. Control of All Axis in 3D Crane Using FOPID Controllers Optimized with GWO Algorithm. In A. Dzielinski, D. Sierociuk, and P. Ostalczyk, editors, *Proceedings of the International Conference on Fractional Differentiation and its Applications (ICFDA'21)*, pages 177–182, Cham, 2022. Springer International Publishing.
- [12] J. Żegleń-Włodarczyk and K. Wajda. Mutual influence of PID and FOPID controllers on different axes of the 3D crane. In *2022 26th International Conference on Methods and Models in Automation and Robotics (MMAR)*, pages 64–69, 2022.
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