
List of publications

- [1] B. Sikora and A. Piłat, “Interdisciplinary identification of the six-pole axial active magnetic bearing prototype,” *Mechatronics*, vol. 92, p. 102 982, 2023. DOI: <https://doi.org/10.1016/j.mechatronics.2023.102982>.
- [2] B. Sikora and A. Piłat, “Analytical modeling and experimental validation of the six pole axial active magnetic bearing,” *Applied Mathematical Modelling*, vol. 104, no. 1, pp. 50–66, Jun. 2022. DOI: <https://doi.org/10.1016/j.apm.2021.10.024>.
- [3] A. Piłat, B. Sikora, and J. Źrebiec, “Investigation of lateral stiffness and damping in levitation system with opposite electromagnets*,” in *2019 12th Asian Control Conf.*, vol. 2029, Jun. 2019, pp. 1210–1215. DOI: <10.1063/1.5066519>.
- [4] A. Piłat, J. Źrebiec, and B. Sikora, “Neural velocity observer trained with experimental data supporting stabilization of magnetically levitating sphere,” in *2019 12th Asian Control Conference (ASCC)*, 2019, pp. 214–219.
- [5] B. Sikora and A. Piłat, “Numerical model of the axial magnetic bearing with six cylindrical poles,” *Archives of Electrical Engineering*, vol. 68, no. 1, pp. 195–208, Jun. 2019. DOI: <10.24425/aee.2019.125990>.
- [6] A. Piłat, B. Sikora, J. Klocek, *et al.*, “Set-up of active magnetic bearings for control of flexible shaft,” *AIP Conference Proceedings*, vol. 2029, no. 1, p. 020 058, Jun. 2018. DOI: <10.1063/1.5066520>.
- [7] A. Piłat and B. Sikora, “Design and initial study of porous core electromagnet for levitation applications,” *AIP Conference Proceedings*, vol. 2029, no. 1, p. 020 057, 2018. DOI: <10.1063/1.5066519>.
- [8] B. Sikora and A. Piłat, “Hybrid axial active magnetic bearing - design, modelling and prototype,” Aug. 2018.