

Co-simulations of induction machines coupled with a radial ball bearing for mechanical defects analysis
El Bouharrouti, Nada; Sitnikov, Maksim; Hemeida, Ahmed; Martin, Florian; Kudelina, Karolina; Naseer, Muhammad Usman; Belahcen, Anouar IET Electric Power Applications 2025 / 13 p. : ill <http://dx.doi.org/10.1049/elp2.12529>

Deep Transfer Learning Approach Using Filtered Time-Frequency Representations of Current Signals for Bearing Fault Detection in Induction Machines
El Bouharrouti, Nada; Nemat Saberi, Alireza; Hussain Khan, Muhammad Dayyan; Kudelina, Karolina; Naseer, Muhammad Usman; Belahcen, Anouar IET Electric Power Applications 2025 <https://doi.org/10.1049/elp2.70074>

Multi-Rate Vibration Signal Analysis for Enhanced Data-Driven Monitoring of Bearing Faults in Induction Machines
El Bouharrouti, Nada; Koveshnikov, Semen; Garcia-Calva, Tomas Alberto; Vehvilainen, Milla; Kudelina, Karolina; Naseer, Muhammad Usman; Vaimann, Toomas; Belahcen, Anouar 2024 International Conference on Electrical Machines, ICEM 2024 2024 / 7 p. <http://dx.doi.org/10.1109/ICEM60801.2024.10700488>

Synthetic Data-Driven Detection of Broken Rotor Bars in Induction Machines Under Adjusted Noise Level
Nuha, Nurjahan Amin; Siddik Injam, Md Tanbir; El Bouharrouti, Nada; Hemeida, Ahmed; Kudelina, Karolina; Naseer, Muhammad Usman; Belahcen, Anouar 2025 IEEE Workshop on Electrical Machines Design, Control and Diagnosis (WEMDCD) 2025 / 6 p <https://doi.org/10.1109/WEMDCD61816.2025.11014141>