

Condition monitoring and diagnostic of electrical machines using IoT and machine learning

Raja, Hadi Ashraf 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 / p. 31-32 : ill https://www.ester.ee/record=b5504019*est

Condition monitoring and fault detection for electrical machines using IOT

Raja, Hadi Ashraf; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants Proceedings of the Future Technologies Conference (FTC) 2022. Volume 2 2022 / p. 162-173 https://doi.org/10.1007/978-3-031-18458-1_12

Cost-efficient real-time condition monitoring and fault diagnostics system for BLDC motor using IoT and Machine learning

Raja, Hadi Ashraf; Raval, Hardik; Vaimann, Toomas; Kallaste, Ants; Rassõlkin, Anton; Belahcen, Anouar Diagnostika '22 : 2022 International Conference on Diagnostics in Electrical Engineering : conference proceedings 2022 / 4 p. <https://doi.org/10.1109/Diagnostika55131.2022.9905102>

A current spectrum-based algorithm for fault detection of electrical machines using low-power data acquisition devices

Asad, Bilal; Raja, Hadi Ashraf; Vaimann, Toomas; Kallaste, Ants; Pomarnacki, Raimondas; Hyunh, Van Khang Electronics 2023 / art. 1746 <https://doi.org/10.3390/electronics12071746>

Custom simplified machine learning algorithms for fault diagnosis in electrical machines

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Development and utilization of synthetic signals for fault diagnostics of electrical machines

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Digital Twin of Wind Generator for Modelling Various Turbine Characteristics

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Digital twin of wind generator to simulate different turbine characteristics using IoT

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An EV-traction inverter data-driven modelling for digital twin development

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Feasibility investigation for residential battery sizing considering EV charging demand

Shabbir, Noman; Kütt, Lauri; Daniel, Kamran; Astapov, Victor; Raja, Hadi Ashraf; Iqbal, Muhammad Naveed; Husev, Oleksandr Sustainability 2022 / art. 1079 <https://doi.org/10.3390/su14031079> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The impact of control environments on global parameters of electrical machines in case of broken rotor bars

Kudelina, Karolina; Raja, Hadi Ashraf; Autso, Siarhei; Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants Diagnostika '22 : 2022 International Conference on Diagnostics in Electrical Engineering : Conference proceedings 2022 / 4 p. <https://doi.org/10.1109/Diagnostika55131.2022.9905149>

The impact of load on global parameters of electrical machines in case of healthy and broken rotor bars

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IoT based tools and methods for electrical machine diagnostics

Raja, Hadi Ashraf 19th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tartu, Estonia, January 14-17, 2020 / p. 115-116 : ill https://www.ester.ee/record=b5291755*est

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IoT based tools for data acquisition and monitoring of electrical machines

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Preliminary analysis of bearing current faults for predictive maintenance

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Preliminary analysis of global parameters of induction machine for fault prediction in rotor bars

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Signal spectrum-based machine learning approach for fault prediction and maintenance of electrical machines

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Techno-economic analysis and energy forecasting study of domestic and commercial photovoltaic system installations in Estonia

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