

Advances in machine fault diagnosis

Vaimann, Toomas Applied sciences 2021 / art. 7348, 5 p <https://doi.org/10.3390/app11167348> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Applications of digital twin across industries : a review

Singh, Maulshree; Srivastava, Rupal; Fuenmayor, Evert; Kuts, Vladimir; Qiao, Yuansong; Murray, Niall; Devine, Declan Applied sciences 2022 / art. 5727 <https://doi.org/10.3390/app12115727>

Common-mode voltage analysis and reduction for the quasi-Z-source inverter with a split inductor

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Design and simulation of the robust ABS and ESP fuzzy logic controller on the complex braking maneuvers

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Effects of night ventilation on indoor air quality in educational buildings—a field study

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Experimental analysis of engine performance and exhaust pollutant on a single-cylinder diesel engine operated using moringa oleifera biodiesel

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Hydroacoustic and pressure turbulence analysis for the assessment of fish presence and behavior upstream of a vertical trash rack at a run-of-river hydropower plant

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Hysteresis measurements and numerical losses segregation of additively manufactured silicon steel for 3D printing electrical machines

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Influence of internal pressure on hollow section steel members in fire

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Language of driving for autonomous vehicles

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Mechanical behavior of Ti6Al4V scaffolds filled with CaSiO3 for implant applications

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Modeling battery energy storage systems based on remaining useful lifetime through regression algorithms and binary classifiers

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Optimization of physical activity recognition for real-time wearable systems : effect of window length, sampling frequency and number of features

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Optimization of radiators, underfloor and ceiling heater towards the definition of a reference ideal heater for energy efficient buildings

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Optimizing the processing of shellfish (*Mytilus edulis* and *M. trossulus* Hybrid) biomass cultivated in the Low Salinity Region of the Baltic Sea for the extraction of meat and proteins

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Overheating risk and energy demand of nordic old and new apartment buildings during average and extreme weather conditions under a changing climate

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Pavement distress detection with deep learning using the orthoframes acquired by a mobile mapping system

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Principles and methods of servomotor control : comparative analysis and applications

Autsou, Siarhei; Kudelina, Karolina; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants Applied sciences 2024 / art. 2579

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Robust design optimization and emerging technologies for electrical machines: challenges and open problems

Orosz, Tamas; Rassõlkin, Anton; Kallaste, Ants; Arsenio, Pedro; Panek, David; Kaska, Jan; Karban, Pavel Applied sciences 2020 / art. 6653, 33 p. : ill

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SHS produced TiB₂-Si powders for selective laser melting of ceramic-based composite

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Simulation of the hot deformation and fracture behavior of reduced activation ferritic/martensitic 13CrMoNbV steel

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Small magnus wind turbine : modeling approaches

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The cluster computation-based hybrid FEM–analytical model of induction motor for fault diagnostics

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Time dependency of current harmonics for switch-mode power supplies

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Towards improving the durability and overall performance of PV-ETICS by application of a PCM layer

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Transient modeling and recovery of non-stationary fault signature for condition monitoring of induction motors

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Trends and challenges in intelligent condition monitoring of electrical machines using machine learning

Kudelina, Karolina; Vaimann, Toomas; Asad, Bilal; Rassõlkin, Anton; Kallaste, Ants; Demidova, Galina Applied sciences 2021 / art. 2761, 19 p. : ill

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A tutorial on dynamics and control of power systems with distributed and renewable energy sources based on the DQ0 transformation

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Urban open platform for borderless smart cities

Soe, Ralf-Martin; Ruohomäki, Timo; **Patzig, Henry** Applied sciences 2022 / art. 700 <https://doi.org/10.3390/app12020700> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)