

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

Liu, Wenjie; Yang, Yongheng; Kerekes, Tamas; **Liivik, Elizaveta**; **Vinnikov, Dmitri**; Blaabjerg, Frede Applied sciences 2020 / art. 8713, 13 p. : ill <https://doi.org/10.3390/app10238713> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Condition monitoring of a Cartesian robot with a mechanically damaged gear to create a fuzzy logic control and diagnosis algorithm

Autsou, Siarhei; **Kudelina, Karolina**; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants** Applied sciences 2024 / art. 4241 <https://doi.org/10.3390/app14104241>

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

Aksjonov, Andrei; Augsburg, Klaus; **Vodovozov, Valery** Applied sciences 2016 / p. 1-18 : ill <http://dx.doi.org/10.3390/app6120382>

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

Kervalishvili, Andrei; **Talvik, Ivar** Applied sciences 2023 / art. 149 <https://doi.org/10.3390/app14010149>

Language of driving for autonomous vehicles

Kalda, Krister; **Pizzagalli, Simone Luca**; **Soe, Ralf-Martin**; **Sell, Raivo**; **Bellone, Mauro** Applied sciences 2022 / art. 5406 <https://doi.org/10.3390/app12115406> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Mechanical behavior of Ti6Al4V scaffolds filled with CaSiO₃ for implant applications

Rahmani Ahranjani, Ramin; **Antonov, Maksim**; **Kollo, Lauri**; **Holovenko, Yaroslav**; **Prashanth, Konda Gokuldoss** Applied sciences 2019 / art. 3844, 11 p. : ill <https://doi.org/10.3390/app9183844> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Gilbert Zequera, Rolando Antonio; **Rjabtšikov, Viktor**; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants** Applied sciences 2023 / art. 7597 <https://doi.org/10.3390/app13137597> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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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

Lukin, Aleksandr; Demidova, Galina; Rassõlkin, Anton; Lukichev, Dmitry; Vaimann, Toomas; Anuchin, Alecksey Applied sciences 2022 / art. 1884

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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

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