

### **Additively manufactured and topology optimized heatsink for a propulsion motor**

**Sarap, Martin; Kallaste, Ants; Vaimann, Toomas;** Shams Ghahfarokhi, Payam 2024 International Conference on Electrical Machines (ICEM) 2024 / 6 p <https://doi.org/10.1109/ICEM60801.2024.10700108>

### **Automatic tolerance analysis of permanent magnet machines with encapsulated FEM Models using Digital-Twin-Distiller**

Orosz, Tamas; Gadó, Krisztián; Katona, Mihály; **Rassölkin, Anton** Processes 2021 / art. 2077, p. 1-15 : ill <https://doi.org/10.3390/pr9112077> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Broken rotor bar fault detection using machine learning: Optimal frequency resolution**

Koveshnikov, Semen; Bouharrouiti, Nada El; **Kudelina, Karolina; Naseer, Muhammad Usman; Vaimann, Toomas;** Belahcen, Anouar 2024 International Conference on Electrical Machines (ICEM) 2024 / 6 p <https://doi.org/10.1109/ICEM60801.2024.10700228>

### **Challenges of additive manufacturing of electrical machines**

**Tiismus, Hans; Kallaste, Ants; Belahcen, Anouar; Rassölkin, Anton; Vaimann, Toomas** 2019 IEEE 12th International Symposium on Diagnostics for Electrical Machines, Power Electronics and Drives (SDEMPED), 27-30 Aug. 2019, Toulouse, France : proceedings 2019 / p. 44-48 : ill <https://doi.org/10.1109/DEMPED.2019.8864850>

### **Computation of magnetic forces using degenerated air-gap element**

Sathyan, Sabin; **Belahcen, Anouar;** Kataja, Juhani; Henrotte, Francois; Benabou, Abdelkader; Le Menach, Yvonnick IEEE transactions on magnetics 2017 / 7401304, 4 p. : ill <https://doi.org/10.1109/TMAG.2017.2656239>

### **Computation of stator vibration of an induction motor using nodal magnetic forces [Online resource]**

Sathyan, Sabin; **Belahcen, Anouar;** Kataja, Juhani; **Vaimann, Toomas;** Sobra, Jan 2016 XXII International Conference on Electrical Machines (ICEM) : SwissTech Convention Center, Lausanne, Switzerland, 04-07 September, 2016 : proceedings 2016 / p. 2198-2203 : ill <https://doi.org/10.1109/ICELMACH.2016.7732827>

### **Condition monitoring and fault detection for electrical machines using IOT**

**Raja, Hadi Ashraf; Vaimann, Toomas; Rassölkin, Anton; Kallaste, Ants** Proceedings of the Future Technologies Conference (FTC) 2022. Volume 2 2023 / p. 162-173 [https://doi.org/10.1007/978-3-031-18458-1\\_12](https://doi.org/10.1007/978-3-031-18458-1_12) [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Design and prototyping of directly driven outer rotor permanent magnet generator for small scale wind turbines [Online resource]**

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### **Design of an additively manufactured polymer composite electrical machine**

**Sarap, Martin; Kallaste, Ants; Naseer, Muhammad Usman; Tiismus, Hans; Rjabtsikov, Viktor; Shams Ghahfarokhi, Payam; Vaimann, Toomas;** Aman, Alexander; Kutia, Mykhailo 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 5 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227413>

### **Design of an additively manufactured thermal solution for an axial flux switched reluctance motor**

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### **The effect of build direction on the thermal conductivity of additively manufactured AISi10Mg and silicon-steel samples**

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### **Electrical and thermal anisotropy in additively manufactured AISi10Mg and Fe-Si samples**

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### **The modeling and investigation of slot skews and supply imbalance on the development of principal slotting harmonics in squirrel cage induction machines**

**Asad, Bilal; Vaimann, Toomas; Belahcen, Anouar; Kallaste, Ants; Rassõlkin, Anton;** Khang, Huynh Van; **Shams Ghahfarokhi, Payam; Naseer, Muhammad Usman; Iqbal, Muhammad Naveed** IEEE Access 2021 / p. 165932-165946 <https://doi.org/10.1109/ACCESS.2021.3134331> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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**Opportunities and challenges of utilizing additive manufacturing approaches in thermal management of electrical machines**

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

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**State of the art of additively manufactured electromagnetic materials for topology optimized electrical machines**

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**State-of-the-Art techniques for fault diagnosis in electrical machines: Advancements and future directions**

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**Steady-state thermal modeling of salient pole synchronous generator**

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**Thermal analysis of salient pole synchronous machines by multiple model planes approach**

**Shams Ghahfarokhi, Payam; Kallaste, Ants;** Podgornovs, Andrejs; **Belahcen, Anouar; Vaimann, Toomas;** Kudrjavev, Oleg 2020 International Conference on Electrical Machines (ICEM), 23-26 august 2020, Gothenburg, Sweden : online : proceedings 2020 / p. 1511–1517 <https://doi.org/10.1109/ICEM49940.2020.9270753>

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