

SCIENTIFIC PAPERS CO-AUTHORED BY MEMBERS FROM AT LEAST 2 TEMOB MEMBERS

1. M. R. Raia, A. Ailincăi, A. Baicoianu, C. Husar and C. Irimia, "Condition Monitoring of Industrial Elevators Based on Machine Learning Models" ETFA 2023, <https://doi.org/10.1109/ETFA54631.2023.10275563>
2. Malael, Ion, I. Octavia Bucur, Valeriu Dragan, Marius Dranca, Mihai Chirca, and Stefan Breban. "Numerical investigation of a geometric unbalanced vertical axis wind turbine new concept." (2021): 237-244.
3. Breban, Ștefan, Marius Drancă, and Ion Mălăel. "Airborne Ultra-Light Micro-Wind Turbine System." Acta Electrotehnica 61, no. 4 (2020).
4. Bucur, I. O., I. Malael, and S. Breban. "Horizontal-axis wind turbine blades manufacture with composite materials." In IOP Conference Series: Materials Science and Engineering, vol. 916, no. 1, p. 012012. IOP Publishing, 2020.
5. Mălăel, Ion, Ioana Octavia Bucur, and Ștefan Breban. "Horizontal-Axis Wind Turbine Blades Mold Manufacture by Using Cutting Processes." In 2019 International Conference on ENERGY and ENVIRONMENT (CIEM), pp. 34-38. IEEE, 2019.
6. Melcescu L., Tudorache T., Craiu O., Popescu M.: "Finite Element Analysis of a Wind Generator with Two Counter-Rotating Rotors", Proceedings of Joint International Conference on Optimization of Electrical & Electronic Equipment and Aegean Conference on Electrical Machines & Power Electronics (OPTIM - ACEMP), May 25-27, 2017, Brasov, Romania.
7. Tudorache Tiberiu, Melcescu Leonard, Bostan Valeriu, Colt Gabriel, Popescu Mihail, Predescu Mihai, "Electromagnetic Analysis of A Hybrid Permanent Magnet Generator", Revue Roumaine des Sciences Techniques-Serie Electrotechnique et Energetique, pag. 33-37, 2018.
8. Tudor, E.; Marinescu, A; Prejbeanu, R.; Vintila, A.; Tudorache, T.; Marinescu, D.G.; Neagu, D.O.; Vasile, I.; Sburlan, I.C., "Electric bus platform for urban mobility", 2022 IOP Conf. Ser.: Earth Environ. Sci. 960 012022 DOI 10.1088/1755-1315/960/1/012022
9. Gabriel Popa, Emil Tudor," Railway traction vehicles with asynchronous motors", *Matrix Rom* Bucharest Publishing House, 2024, 414 pages, ISBN 978-606-25-0887-6.

10. Mihăilescu Ioana, Gabriel Popa, Emil Tudor, Ionuț Vasile, and Marius Alin Gheți. "Experimental Study of Wheel-to-Rail Interaction Using Acceleration Sensors for Continuous Rail Transport Comfort Evaluation." *Sensors* 23, no. 19 (2023): 8064.
11. M. Andrei, G. Popa, Emil Tudor, P. Anghelița, M.-G. Matache, "The Electric Traction Motors Balancing for Load Transfer Effects Compensation" 2023 Journal *INMATEH-Agricultural Engineering* Volume 71 Issue 3
12. Andrei, M., Popa, G., Ilie, G., Tudor, E., "Stick-Slip Movement in Driving Axles of Railway Vehicles Equipped with Dampening Devices", *Electrotehnica, Electronica, Automatica* (EEA), 2023, vol. 71, nr. 3, Scopus, DOI: 10.46904/eea.23.71.3.1108004;
13. Popa, G., Gheți, M.A., Tudor, E., Vasile, I. and Sburlan, I.C., 2022. Experimental study regarding long range LiDAR capabilities in sensing safety distance for vehicle application. *Sensors*, 22(15), p.5731.
14. Vasile, I.; Tudor, E.; Sburlan, I.-C.; Gheți, M.-A.; Popa, G. Experimental Validation of LiDAR Sensors Used in Vehicular Applications by Using a Mobile Platform for Distance and Speed Measurements. *Sensors* 2021, 21, 8147. <https://doi.org/10.3390/s21238147>
15. Emil Tudor, I. Vasile, G. Popa and M. Gheți, "LiDAR Sensors Used for Improving Safety of Electronic-Controlled Vehicles," 2021 12th International Symposium on Advanced Topics in Electrical Engineering (ATEE), Bucharest, Romania, 2021, pp. 1-5, doi: 10.1109/ATEE52255.2021.9425123
16. Mateescu, C.; Tudor, E.; Dima, A.-D.; Chirita. I.; Tanasiev, V.; Prisecaru, T., Artificial Intelligence Approach in Predicting Biomass-to-Biofuels Conversion Performances, ISBN:978-1-4577-1868-7, IEEExplore, DOI: 10.1109/ICCC54292.2022.9805871, WOS 000925203600066;

PATENTS AND PATENTS REQUESTS CO-AUTHORED BY MEMBERS FROM AT LEAST 2 T4EMOB MEMBERS

1. Breban Stefan, Dranca Marius, Malael Ion, "SISTEM EOLIAN AEROPURTAT DE PRODUCERE A ENERGIEI ELECTRICE", 2019.
2. Melcescu L., Nicolaie S., Popescu M., Predescu M., Tudorache T.: " Generator eolian hibrid cu flux magnetic radial și rotor exterior", Brevet inventie no. RO131135, OSIM 2014.
3. Tudorache Tiberiu, Predescu Mihai, Nicolaie Sergiu, Popescu Mihail: "Generator eolian hibrid cu flux magnetic radial si rotor interior", Brevet inventie no. RO131137, OSIM 2014.
4. Ștefan, V., Paraschiv, M.-M., Matache, M.-G., Ciupercă, R., Popa, L., Tudor, E.; Vasile, I.; Sburlan, I.C.; Mateescu, C., " Self-propelled electrically driven floating technical equipment for lacustrine biomass harvesting", Nov 2022, National patent request no A00752/2022

PHD JURIES MEMBERSHIP

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Common projects

	Common projects	Partners involved		Common projects	Partners involved
1	DISEP 72PTE/2022	CO, P5	9	DigiTech, PCCDI-2017-0224	CO, P6
2	Tehnologii electromagnetice emergente pentru materiale auto-reparabile, PCCDI-2017- 0845	P2, P5	10	Tehnologii inovative pentru clădiri și instalații durabile, PCCDI-2017-0554	P3, P2
3	CIA_CLIM, PCCDI 30/2018	CO, P3, P5	11	Bisnet Transylvania, COSME EEN 2019	CO, P5
4	IEDPFC, PCCA 60/2014	CO, P5	12	Innocap Transylvania, H2020 EEN	CO, P5
5	EMLEV - 47PTE/2019	CO, P1	13	TRAMDAR, 409PED/2020	P5, P1
6	POCU InoHubDoc, https://inohubdoc.upt.ro/	P3, CO, P2	14	Turbină eoliană hibridă cu ax vertical, PCCA 41/2014	P1, P5
7	4DPOSTDOC, POSDRU / 89 / 1.5 / S / 52603	CO, P3, P2	15	TRADE-IT, PCCDI 2017-0652	CO, P2
8	EXTWIG, nr. 64PED/2017	CO, P6	16	ROBIN – Proiect nr. 72PCCDI	P1, CO