

MEMORIU ȘTIINȚIFIC

Student-doctorand: Ichim Teodor-Ionuț

Studii de doctorat

Perioada: 2021-2025

Conducător științific: prof. dr. ing. Laurențiu-Marius Dumitran

Domeniu: INGINERIE ELECTRICĂ

Titlul tezei de doctorat: Modele numerice pentru analiza mașinilor electrice cu magneți permanenți

Activitate științifică

A. Lista de lucrări științifice (articole în reviste sau volume)

1. Teodor Ionuț Ichim, Ovidiu Craiu, „Comparison of two bi-phase hybrid stepper motors, one with a solid and the other with laminated stator” Rev. Roum. Sci. Techn.–Électrotechn. et Énerg., ISSN 0035-4066, Volume 70, Issue2, Page 181-186, APR-JUN 2025, DOI 10.59277/RRST-EE.2025.2.5, WOS:001511614200005.
2. Craiu Ovidiu, Ichim Teodor Ionuț, „Geometrical optimization of a bi-phase hybrid stepper motor using FEM”, U.P.B. Sci. Bull., ISSN 2286-3540, series C, Volume 87 Issue1 Page 273-288, 2025, https://www.scientificbulletin.upb.ro/rev_docs_arhiva/rez21b_512993.pdf, WOS:001445507200019.
3. Teodor Ionuț Ichim, Ovidiu Craiu, Liviu Cristian Popescu, „Analyzing a three hundred teeth bi-phase hybrid stepper motor with different numbers of pole pairs”, Rev. Roum. Sci. Techn.–Électrotechn. et Énerg., ISSN 0035-4066, Vol.68, 3, pp. 283–288, Bucharest, 2023, DOI10.59277/RRST-EE.2023.68.3.6, WOS:001087001200006
4. Ovidiu Craiu, Teodor Ionuț Ichim, Liviu Popescu, „FEM study of a synchronous motor with different permanent magnet topologies”, U.P.B. Sci. Bull., ISSN 2286-3540, Series C, Vol. 85, Iss. 1, 2023, https://www.scientificbulletin.upb.ro/rev_docs_arhiva/reze02_229821.pdf, WOS:000983211300012.
5. Ovidiu Craiu, Teodor-Ionuț Ichim, „FEM - Analysis of eddy currents in a BLDC stator liner”, U.P.B. Sci. Bull., ISSN 2286-3540, Series C, Vol. 84, Iss. 1, 2022, https://www.scientificbulletin.upb.ro/rev_docs_arhiva/fullbbd_250468.pdf, WOS:000809277600012.

B. Participări la conferințe/workshop-uri

1. Ovidiu Craiu, Teodor Ionuț Ichim, Leonard Marius Melcescu, Liviu Popescu, „Optimization of a High Torque Density Small Hybrid Stepper using 3D FEM Model”, 2022 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM) ISBN: 978-1-6654-8460-2/978-1-6654-8459-6, JUN 22-24, 2022, DOI: 10.1109/SPEEDAM53979.2022.9842105, WOS:001429387900101
2. Ovidiu Craiu, Teodor-Ionuț Ichim, Liviu Popescu, „3D FEM Model of a Hybrid Stepper Using Scalar-Vector Potential Formulations, 2023 13th International Symposium on Advanced Topics in Electrical Engineering (ATEE), 23-25 March 2023, ISSN: 2159-3604, ISBN: 979-8-3503-3193-6/23/\$31.00 ©2023 IEEE, DOI: 10.1109/ATEE58038.2023.10108283.
3. Ovidiu Craiu, Teodor-Ionuț Ichim, Paul-Matei Craiu, „Analysis of Iterative Solvers used for Computing a 3D FEM Hybrid Stepper Model”, 2023 13th International Symposium on Advanced Topics in Electrical Engineering (ATEE), 23-25 March 2023, ISSN: 2159-3604, ISBN: 979-8-3503-3193-6/23/\$31.00 ©2023 IEEE, DOI: 10.1109/ATEE58038.2023.10108337.

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