MEMORIU ȘTIINȚIFIC

Student-doctorand: Mihai Rotaru

Studii de doctorat

Perioada: 2021-2026

Conducător științific: Prof. dr. ing. Mihai Iordache

Domeniu: INGINERIE ELECTRICĂ

Titlul tezei de doctorat: Contribuții privind utilizarea teoriei circuitelor electrice în realizarea și optimizarea unui sistem inteligent de gestionare a bateriilor destinate vehiculelor electrice

Activitate științifică

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

1. Adrian-Florian Georgescu, Dragos Niculae, Mihai Iordache, Marilena Stănculescu, Ana-Maria Bumbeneci, Lavinia Bobaru, Georgiana Zainea, Mihai Rotaru, „Automatic Procedure and the Use of the Smith Chart in Impedance Matching in Analog Circuits", Electronics, Vol. 14, 2746, 2025;
2. Mihai Rotaru, Adrian Georgescu, Dragoș Niculae, Georgiana Zainea, Mihai Iordache, Steliana Pușcașu, „Conversions Among Z, Y, H, F, T, and S Parameters, Which are Highly Beneficial for the Analysis of Two-Port Circuits and Filters", Electronics, Vol. 15, 255, 2026;
3. Mihai Iordache, Marilena Stanculescu, Lavinia Bobaru, Dragoş Niculae, Sorin Deleanu, Adrian Georgescu, Mihai Rotaru, Anton Anastasie Moscu, „Using the SSEMGP – SEMI-STATE Equation Matrix Generation Program for Transfer Function Generation in Analog Circuits with Single Input – Single Output and Multiple Inputs - Multiple Outputs", IEEE - 2025 International Conference on Electromechanical and Energy Systems (SIELMEN), 2025;
4. Mihai Rotaru, Georgiana Rezmeriță, Ionut Cătălin Mihăilă, Mihaela Popescu, Mihai Iordache, „Presentation of the Smith Chart and Applications to Analog Circuit Analysis", Proceeding of the 13th International Symposium Advanced Topics in Electrical Engineering – ATEE'23, 2023;
5. Mihaela Grib, Maria Lavinia Bobaru, Mihai Iordache, Marilena Stănculescu, Georgiana Rezmeriță, Mihai Rotaru, „The Use of Smith Diagram for Impedance Matching", Proceedings of the 10th International Conference on Modern Power Systems (MPS 2023), 2023;
6. Ovidiu Lăudatu, Marilena Stănculescu, Mihai Iordache, Lavinia Bobaru, Dragoș Niculae, Mihai Rotaru, „Design Considerations for Switched–Mode Power Supplies with Capacitive Coupling", Proc. of the 16th International Conference on Applied and Theoretical Electricity (ICATE 2024), 2024;

7. Adrian Georgescu, Mihai Iordache, Dragoș Niculae, Lavinia Bobaru, Georgiana Rezmeriță, Mihai Rotaru, Ana-Maria Tudor, „Generation of Two–Port Circuit and Filter Parameters", Proceeding of the 14th International Symposium Advanced Topics in Electrical Engineering – ATEE'25, 2025;
8. Mihai Rotaru, Adrian-Florian Georgescu, Mihai Iordache, Dragoș Niculae, Steliana Pușcașu, Georgiana Zainea, „Analysis of the Asyncronous Motor in Steady-State Regime When Taking into Consideration the Magnetization Characteristic and the Variation of the Rotor Resistance with Slip", Revista Electric Machines, Materials, and Drives (APME), Ediția XXI, 2025.

B. Participări la conferințe/workshop-uri

1. 13th International Symposium Advanced Topics in Electrical Engineering (ATEE'23), București, 2023;
2. 10th International Conference on Modern Power Systems (MPS), București, 2023;
3. 16th International Conference on Applied and Theoretical Electricity (ICATE), Craiova, 2024;
4. 14th International Symposium Advanced Topics in Electrical Engineering (ATEE'25), București, 2025;
5. International Conference on Electromechanical and Energy Systems (SIELMEN), Iași, 2025;
6. Electric Machines, Materials, and Drives Present and Trends (APME/SME'25), București, 28 noiembrie 2025.

Conducător de doctorat,

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Student-doctorand,

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