

Nume Prenume: **Erdei Zoltan**

Gradul didactic: Conferențiar universitar

Instituția unde este titular: Universitatea Tehnică din Cluj-Napoca

Facultatea: Inginerie

Departamentul: Inginerie Electrică, Electronică și Calculatoare

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Contributii privind analiza tolerantelor circuitelor electrice analogice, conducător științific: Prof.dr.ing. Mihai Iordache, Universitatea Politehnica din Bucuresti, 18.12.2008.

B. Cărți si capitole în cărți publicate în ultimii 10 ani

1. Erdei Zoltan, Măsurări electrice și electronice, Risoprint, ISBN 978-973-53-2328-8, 2019
2. Erdei Zoltan, Îndrumar de laborator măsurări electrice și electronice, Risoprint, ISBN 978-606-701-324-1, 2019
3. Chiver Olivian, Petrean L., Neamț L., Erdei Z, COMPUTERS and SIMULATION in MODERN SCIENCE Volume III / Chapter 6: End Winding Inductance of Three-Phase A.C. Machines, WSEAS Press, ISBN 978-960-474-256-1, 2010
4. Neamț Liviu, Petrean L., Chiver O., Erdei Z, COMPUTERS and SIMULATION in MODERN SCIENCE, Volume IV / Chapter 20: Power Transmission Line Magnetic Fields for different Phase Arrangements, WSEAS Press, ISBN 978-960-474-267-7, 2010

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani - ISI

1. Horgos M., Neamt L., Erdei Z., Chiver O., Barz C., Zetea O. Determination of System for Wireless Power Transfer, 2015 9TH INTERNATIONAL SYMPOSIUM ON ADVANCED TOPICS IN ELECTRICAL ENGINEERING (ATEE) Pages: 422-425
2. Neamt, L ; Chiver, O ; Erdei, Z; Barz, C, Considerations about Medium Voltage SF6 Switch Disconnecter Framework Design based on 3D Electrostatic FEA, IEEE 16th International Conference on Environment and Electrical Engineering (EEEIC), Florence, ITALY, JUN 07-10, 2016, ISBN:978-1-5090-2320-2
3. Barz, Cristian; Chiver, Olivian; Erdei, Zoltan; Horgos, Mircea; Preradović, Dragana, Automation with MFD Titan for lighting control, Electrical and Power Engineering (EPE), 2016 International Conference and Exposition on, pg. 466-471, October 20-22, 2016, Iasi, Romania
4. Olivian Chiver, Liviu Neamt, Oliviu Matei, Zoltan Erdei, Cristian Barz, Utilization of finite elements programs and Matlab Simulink in the study of a special electrical motor, INTERNATIONAL JOURNAL OF

ADVANCED COMPUTER SCIENCE AND APPLICATIONS Volume: 8 Issue: 4 Pages: 317-323 (Apr.2017)

5. Chiver, O. ; Neamt, L.; Pop, E. ; Horgos, M.; Erdei, Z.; Pop-Vadean, A.; Pop, P.P., Single-phase PM synchronous motor simulation with Matlab/Simulink, INTERNATIONAL CONFERENCE ON APPLIED SCIENCES (ICAS2016) Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 163 Article Number: UNSP 012042 DOI: 10.1088/1757-899X/163/1/012042 Published: 2017
6. Chiver Olivian , Neamt Liviu , Barz Cristian , Pop Eleonora, Costea Cristinel , Erdei Zoltan, Study on the End Winding Inductance of Three-Phase Windings in Two Layers, TEHNIČKI VJESNIK - TECHNICAL GAZETTE, vol. 26, no. 5, p. 1510-1514, 2019
7. Erdei Z; Horgos M; Zetea O, Simulation of defects on contactor coil, Conference on Innovative Ideas in Science, NOV 10-11, 2016
8. Erdei Z; Horgos M; Grib A; Preradovic DM; Rodic V, MCCB warm adjustment testing concept, International Conference on Innovative Ideas in Science (IIS), NOV 12-13, 2015
9. Erdei Z; Horgos M; Lung C; Pop-Vadean A; Muresan R, Frequency behavior of the residual current devices, International Conference on Applied Sciences (ICAS), MAY 25-27, 2016

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10. Chiver Olivian, Neamt Liviu, Barz Cristian, Pop Eleonora, Erdei Zoltan, *Reactive Power Consumption Analysis of a Medium Sized Factory*, 2020 IOP Conf. Ser.: Mater. Sci. Eng. vol. 749 012029.
11. Liviu NEAMT, Olivian CHIVER, Zoltan ERDEI, Cristian BARZ, Aspects Regarding SF6 Switch Disconnecter Framework Design, Carpathian Journal of Electrical Engineering, vol.10, no.1, 2016, Baia Mare, ISSN 1843-7583.
12. ZOLTAN ERDEI, BARZ CRISTIAN, CLAUDIU LUNG, MIRCEA HORGOS, Study about integrating Industrial Internet of Things (IIoT) into compress air system, Building Smart Communities for the Future: SMART solutions for energy Journal, pg.19, 2021
13. Horgos Mircea, Erdei Zoltan, Barz Cristian, Birsan Ionut, Ilia Mirela, Contributions to Testing Residual Current Devices at Different Frequency Values, 6Th International Conference on Modern Power Systems MPS 2015, 18-21 May 2015, Cluj Napoca, Romania, Acta Electrotehnica, Vol 56 (3). [EBSCO]
14. Cristian, Barz; Zoltan, Erdei; Olivian, Chiver; Przemyslaw, Syrek Influences on Energy Generation in Photovoltaic Systems International Scientific Symposium on Electrical Power Engineering 2024/9/11 438-448 Springer Nature Switzerland
15. O Onysko, V Kopei, C Barz, Z Erdei, V Rodic - Influence of end cutting edge angle of a multi-point lathe cutter on the thread profile accuracy. Theoretical investigation Journal of Physics: Conference Series, 2023

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1. Chiver Olivian, Neamt Liviu, Barz Cristian, Pop Eleonora, Erdei Zoltan, *Reactive Power Consumption Analysis of a Medium Sized Factory*, 2020 IOP Conf. Ser.: Mater. Sci. Eng. vol. 749 012029
2. C Barz, CK Jalba, Z Erdei, SML Hahn, Approaches for the planning and implementation of Industry 4.0, Periodicals of Engineering and Natural Sciences 7 (1), pp. 375-380

3. Liviu NEAMT, Olivian CHIVER, Zoltan ERDEI, Cristian BARZ2, Aspects Regarding SF6 Switch Disconnecter Framework Design, Carpathian Journal of Electrical Engineering, vol.10, no.1, 2016, ISSN 1843-7583
4. Neamt, L., Chiver, O., Erdei, Z., Barz, C., Considerations about medium voltage SF6 switch disconnecter framework design based on 3D electrostatic FEA, ISBN: 978-150902319-6, IEEEIC 2016 - International Conference on Environment and Electrical Engineering 29 August 2016
5. Horgos, M., Neamt, L., Erdei, Z., Barz, C., Zetea, O., Determination of system for wireless power transfer, ISBN: 978-147997514-3, 2015 9th International Symposium on Advanced Topics in Electrical Engineering
6. Erdei, Z., Iordache, M., Niculae, D., Stanculescu, M., Grib, A., The Use of S Parameters in Two-Port Analogue Networks Stability Analysis, IOP Conference Series: Materials Science and Engineering Volume 749, Issue 1, 20, Article number 012031, 2020;
7. A Grib, Z Erdei, MC Turcu, A Constantin, M Iordache, Using Pathological Elements in Analog Circuit Analysis and Simulation. Carpathian Journal of Electronic & Computer Engineering 13 (2) , 2019

E. Brevete în întreaga activitate

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Data

04.09.2026

Semnătura