

Universitatea din Craiova
Facultatea de Inginerie Electrică
Departamentul de Inginerie Electrică, Energetică și Aerospațială
Ș.I. dr. ing. Alin-Iulian DOLAN

L I S T A
lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

1. Contribuții la modelarea câmpurilor și a regimurilor tranzitorii în echipamente electrice, domeniul Inginerie electrică, Universitatea din Craiova, 2009.

B. Suport didactic

1. A.-I. Dolan, *Echipamente electrice*, Suport de curs pentru programul de studii de licență Inginerie Electroenergetică, Craiova, ediție actualizată 2025 – format electronic, 191 pag. disponibil pe platforma [Google Classroom](#), Cod i3z3oscy.
2. A.-I. Dolan, *Echipamente electrice*, Platformă de laborator pentru programul de studii de licență Inginerie Electroenergetică, Craiova, ediție actualizată 2025 – format electronic, 73 pag. disponibil pe platforma [Google Classroom](#), Cod j3xosvrs.
3. A.-I. Dolan, *Tehnica tensiunilor înalte*, Suport de curs pentru programul de studii de licență Inginerie Electroenergetică, Craiova, ediție actualizată 2025 – format electronic, 162 pag. disponibil pe platforma [Google Classroom](#), Cod khsvc2xw.
4. A.-I. Dolan, *Tehnica tensiunilor înalte*, Platformă de laborator pentru programul de studii de licență Inginerie Electroenergetică, Craiova, ediție actualizată 2025 – format electronic, 19 pag. disponibil pe platforma [Google Classroom](#), Cod khsvc2xw.

C. Cărți și capitole în cărți

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D. Lucrări indexate ISI/BDI

D1. Reviste

2021-2025

1. **Alin-Iulian Dolan**, Constantin-Florin Ocoleanu, *Impact of Experimental Measurements Accuracy on Validation Process of Crimped Connections*, Annals of the University of Craiova, Series: Electrical Engineering, No. 45, pp. 16-23, 2021, Universitaria Publishing House, <https://doi.org/10.52846/AUCEE.2021.1.03>
2. **Alin-Iulian Dolan**, *Exhaustive Optimization Method Applied on Electromagnetic Device*, Annals of the University of Craiova, Series: Electrical Engineering, No. 46, Issue 1, pp. 34-41, 2022, Universitaria Publishing House, <https://doi.org/10.52846/AUCEE.2022.06>
3. **Alin-Iulian Dolan**, *Estimation of the Heating of Crimped Connections Based on Experimental Tests*, Annals of the University of Craiova, Series: Electrical Engineering, No. 47, Issue 1, pp.28-34, 2023, Universitaria Publishing House, <https://doi.org/10.52846/AUCEE.2023.05>

4. **Alin-Iulian Dolan**, *Polynomial Models used in Optimization by Design of Numerical Experiments*, Annals of the University of Craiova, Series: Electrical Engineering, No. 48, Issue 1, pp. 46-54, 2024, Universitaria Publishing House, <https://doi.org/10.52846/AUCEE.2024.07>

2016-2020

5. **Alin-Iulian Dolan**, *Optimal Shape of DC Electromagnet*, Annals of the University of Craiova, Series: Electrical Engineering, No. 41, pp. 9-13, 2017, Universitaria Publishing House, <https://journals.indexcopernicus.com/api/file/viewByFileId/208647>
6. Ioan Popa, **Alin-Iulian Dolan**, Constantin-Florin Ocoleanu, *Static Force Characteristic and Thermal Field for a Plunger-Type AC Electromagnet*, Annals of the University of Craiova, Series: Electrical Engineering, No. 41, pp. 29-33, 2017, Universitaria Publishing House, <https://journals.indexcopernicus.com/api/file/viewByFileId/208659>
7. **Alin-Iulian Dolan**, *Application of Direct Optimization Method by Zooms to Improve the Performances of AC Electromagnet*, Annals of the University of Craiova, Series: Electrical Engineering, No. 42, Issue 2, pp. 45-50, 2018, Universitaria Publishing House, <https://journals.indexcopernicus.com/api/file/viewByFileId/438488>

D2. Manifestări științifice

2021-2025

1. **Alin-Iulian Dolan**, Constantin-Florin Ocoleanu, *Influence of Experimental Measurements Accuracy on Connector Resistance Factor for Crimped Connections*, Proceedings of the XV-th IEEE International Conference on Applied and Theoretical Electricity (ICATE 2021), pp. 1-5, Craiova, Romania, May 27-29, 2021, <https://doi.org/10.1109/ICATE49685.2021.9465020>
2. **Alin-Iulian Dolan**, *Useful Experiment Based Formulas for Estimating the Heating of Crimped Connections*, Proceedings of the XIV-th International Conference on Electromechanical and Power Systems (SIELMEN 2023), October 11-13, pp. 1-5, Craiova-Chisinau, 2023, <https://doi.org/10.1109/SIELMEN59038.2023.10290769>
3. **Alin-Iulian Dolan**, *Optimization by Zooms without and with Second-Order Polynomial Models Applied to a 2-D Simulation*, Proceedings of the XV-th IEEE International Conference on Applied and Theoretical Electricity (ICATE 2024), pp. 1-6, Craiova, Romania, October 24-25, 2024, <https://doi.org/10.1109/ICATE62934.2024.10748944>
4. **Alin-Iulian Dolan**, *Exhaustive optimization method based on screening and zoom techniques applied to an electromagnetic device*, Proceedings of the XV-th International Conference on Electromechanical and Power Systems (SIELMEN 2025), October 15-17, pp. 1-6, Iasi-Chisinau, 2025, <https://doi.org/10.1109/SIELMEN67352.2025.11260691>
5. Ioana-Gabriela Sîrbu, Lucian Mandache, Dan-Gabriel Stănescu, **Alin-Iulian Dolan**, Maria Brojboiu, Mircea Ardeleanu, *Analysis on electromagnetic testing method for flat pieces using numerical modeling*, Proceedings of the XV-th International Conference on Electromechanical and Power Systems (SIELMEN 2025), October 15-17, pp. 1-6, Iasi-Chisinau, 2025, <https://doi.org/10.1109/SIELMEN67352.2025.11260799>
6. Lucian Mandache, Ioana-Gabriela Sîrbu, Dan-Gabriel Stănescu, **Alin-Iulian Dolan**, Maria Brojboiu, Mircea Ardeleanu, *Fast generation of transfer functions for nonreciprocal circuits*, Proceedings of the XV-th International Conference on Electromechanical and Power Systems (SIELMEN 2025), October 15-17, pp. 1-6, Iasi-Chisinau, 2025, <https://doi.org/10.1109/SIELMEN67352.2025.11260816>

2016-2020

7. **Alin-Iulian Dolan**, Florian Stefanescu, *Exhaustive optimization method based on DOE and FEM applied on a SMES device*, Proceedings of the XIX-th IEEE International Symposium on Electrical Apparatus and Technologies (SIELA 2016), Bourgas, Bulgaria, May 29-June 1, pp. 92-95, 2016,

<https://doi.org/10.1109/SIELA.2016.7542994>

8. Ioan Popa, **Alin-Iulian Dolan**, *Numerical Modeling of Power Cables*, Proceedings of the XIX-th IEEE International Symposium on Electrical Apparatus and Technologies (SIELA 2016), Bourgas, Bulgaria, May 29-June 1, pp. 262-267, 2016, <https://doi.org/10.1109/SIELA.2016.7543035>
9. **Alin-Iulian Dolan**, *Optimization of DC Electromagnet Using Design of Experiments and FEM*, Proceedings of the XIII-th IEEE International Conference on Applied and Theoretical Electricity (ICATE 2016), pp. 1-6, Craiova, Romania, October 06-08, 2016, <https://doi.org/10.1109/ICATE.2016.7754609>
10. Ioan Popa, **Alin-Iulian Dolan**, *Numerical modeling of three-phase busbar systems: Calculation of the thermal field and electrodynamic forces*, Proceedings of the XIII-th IEEE International Conference on Applied and Theoretical Electricity (ICATE 2016), pp. 1-9, Craiova, Romania, October 06-08, 2016, <https://doi.org/10.1109/ICATE.2016.7754608>
11. **Alin-Iulian Dolan**, *Three parameters optimization of acting force of DC electromagnet*, Proceedings of the XI-th International Conference on Electromechanical and Power Systems (SIELMEN 2017), October 11-13, pp. 575-578, Iasi-Chisinau, 2017, <https://doi.org/10.1109/SIELMEN.2017.8123390>
12. Ioan Popa, **Alin-Iulian Dolan**, *Numerical model for a plunger-type AC electromagnet*, Proceedings of the XI-th International Conference on Electromechanical and Power Systems (SIELMEN 2017), October 11-13, pp. 78-81, Iasi-Chisinau, 2017, <https://doi.org/10.1109/SIELMEN.2017.8123309>
13. **Alin-Iulian Dolan**, *Improvement of Static Force Characteristic of AC Electromagnet Using DOE and FEM*, Proceedings of the XIV-th IEEE International Conference on Applied and Theoretical Electricity (ICATE 2018), pp. 1-5, Craiova, Romania, October 06-08, 2018, <https://doi.org/10.1109/ICATE.2018.8551373>
14. Constantin-Florin Ocoleanu, **Alin-Iulian Dolan**, *Experimental and statistical study of connector resistance factor influence on crimping validation process*, Proceedings of the VII-th International Conference on Renewable Energy Research and Applications (ICRERA 2018), pp. 1-4, Paris, France, October 14-17, 2018, <https://doi.org/10.1109/ICRERA.2018.8566820>
15. **Alin-Iulian Dolan**, *Improvement of Acting Force of DC Plunger-Type Electromagnet by Six Parameters optimization*, Proceedings of the XII-th International Conference on Electromechanical and Power Systems (SIELMEN 2019), October 9-11, pp. 1-5, Iasi-Chisinau, 2019, <https://doi.org/10.1109/SIELMEN.2019.8905908>

E. Lucrări publicate în reviste și volume de conferințe cu referenți (neindexate)

2021-2025

1. Dan-Gabriel Stănescu, Ioana-Gabriela Sîrbu, Alexandru-Ion Mihăilă, **Alin-Iulian Dolan**, Lucian Mandache, Cosmin-Marian Bușe, *Instrumente software utilizate pentru simularea funcționării filtrelor electrice de curenți slabi*, Machines, Materials and Drives - Present and Trends (APME 2024) (XX-th Symposium on Electrical Machines, SME-2024, November 29, 2024, POLITEHNICA București) pp. 98-102, <https://doi.org/10.36801/>

2016-2020

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F. Brevete obținute în întreaga activitate

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G. Participare la proiecte de cercetare

G1. Granturi / proiecte câștigate prin competiție națională/internațională

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G2. Contracte de cercetare / consultanță (valoare echivalentă de minim 2.000 Euro)

2021-2025

1. Contract de cercetare „Cercetări privind parametri electrici și mecanici ai cablurilor sertizate utilizate în construcția generatoarelor electrice”, 28C/22.11.2019, CITT Craiova, Universitatea din Craiova - Cummins Generator Technologies Romania SA, responsabil contract **Alin-Iulian Dolan**, valoare 6395 Euro, 2019-2021.
2. Contract de cercetare „Cercetări privind determinarea experimentală a parametrilor electrici și mecanici ai cablurilor sertizate utilizate în construcția locomotivelor electrice”, 9C/16.09.2020, CITT Craiova, Universitatea din Craiova - SC Softronic SRL Craiova, responsabil contract **Alin-Iulian Dolan**, valoare 3087 Euro, 2020-2022.
3. Contract de cercetare „Cercetări privind parametri electrici și mecanici ai cablurilor sertizate utilizate în construcția generatoarelor electrice”, 7C/03.03.2022, CITT Craiova, Universitatea din Craiova - Cummins Generator Technologies Romania SA, responsabil contract **Alin-Iulian Dolan**, valoare 5822 Euro, 2022-2024.
4. Contract de cercetare „Cercetări privind determinarea experimentală a parametrilor electrici și mecanici ai cablurilor sertizate utilizate în construcția locomotivelor electrice”, 20C/24.10.2022, CITT Craiova, Universitatea din Craiova - SC Softronic SRL Craiova, responsabil contract **Alin-Iulian Dolan**, valoare 694 Euro, 2022-2024.
5. Contract de cercetare „Cercetări privind parametri electrici și mecanici ai cablurilor sertizate utilizate în construcția generatoarelor electrice”, 10C/24.05.2024, CITT Craiova, Universitatea din Craiova - Cummins Generator Technologies Romania SA, responsabil contract **Alin-Iulian Dolan**, valoare 3816 Euro, 2024-2026.

2016-2020

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Data:
01.10.2025

Semnătura: