Nume Prenume: **Costea Claudiu Raul**
Gradul didactic: **şef de lucrări .dr.ing.**
Instituția unde este titular**: Universitatea din Oradea**
Facultatea: **de Inginerie Electrică şi Tehnologia Informaţiei**
Departamentul: **de Ingineria Sistemelor Automate și Management**

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

A – Teza de doctorat

Claudiu Raul Costea, *Controlul proceselor pentru fabricarea cimentului*, Universitatea Tehnică din Cluj-Napoca, 2012.

B – Cărţi şi capitole în cărţi pentru întreaga activitate

1. **Claudiu Raul Costea**, *Controlul proceselor cu aplicaţii la fabricarea cimentului*, Editura Universităţii din Oradea, ISBN 978-606-10-1475-0, 129 pagini, 2015.
2. L.M. Matica, R. Mittler-Matica, **Claudiu Raul Costea**, S.V. Abrudan-Caciora, *Biostatistics, Several Exercises in Excel* [CD-ROM], Editura Universităţii din Oradea, ISBN 978-606-10-2039-3, 58 pagini, 2019.
3. **Claudiu Raul Costea**, *Ghid practic de identificare, modelare şi simulare* [CD-ROM], Editura Universităţii din Oradea, ISBN 978-606-10-2498-8, 64 pagini, 2026.
4. **C.R. Costea**, *Programarea calculatoarelor şi limbaje de programare – curs*, în format electronic, 2026.
5. **C.R. Costea**, *Modelare, simulare şi identificare – curs*, în format electronic, 2026.
6. **C.R. Costea**, *Sisteme informatice industriale – curs*, în format electronic, 2026.
7. **C.R. Costea**, *Sisteme de reglare avansate – curs*, în format electronic, 2026.
8. **C.R. Costea**, *Sisteme de reglare avansate – îndrumător de laborator*, în format electronic, 2026.
9. **C.R. Costea**, *Programare în limbajul C – îndrumător de laborator*, în format electronic, 2026.

C – Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Helga Silaghi, Viorica Spoială, Alexandru Marius Silaghi, Tiberia Ilias, Cornelia Gyorodi, **Claudiu Costea**, Sanda Dale, Ovidiu Cristian Frăţilă, *Automatic Control of Colonoscope Movement for Modern Colonoscopy*, International Journal of Advanced Computer Science and Applications (IJACSA), Volume 10, Issue 3, ISSN: 2158-107X, eISSN: 2156-5570, WOS:000426979500004, pp. 16-19, 2019.
2. Liliana Marilena Matica, Zoltan Kovendi, Helga Maria Silaghi, **Claudiu Costea**, *Some Considerations Regarding Efficiency of Electrical Energy Consumption*, The Scientific Bulletin of Electrical Engineering Faculty, Publisher De Gruyter Open, ISSN (Print) 1843-6188, ISSN (Online) 2286-2455, April 2017.
Digital Object Identifier: https://doi.org/10.1515/SBEEF-2016-0022.
3. **Claudiu Raul Costea**, Eugen Gergely, Gesa Husi, Laura Coroiu, Helga Silaghi, Alexandru Bara, *A Control Design Technique for Grinding Systems with Feedforward Undercompensation and Feedback Control*, The Scientific Bulletin of Electrical Engineering Faculty, Publisher De Gruyter Open, ISSN (Print) 1843-6188, ISSN (Online) 2286-2455, April 2017.

Digital Object Identifier: https://doi.org/10.1515/SBEEF-2016-0012.
4. **Claudiu Raul Costea**, Sanda Dale, Doina Zmaranda, Helga Silaghi, *MATLAB-SIMULINK Modeling for the Well Station of a Geothermal Power Plant*, Proceedings of 2017 14th International Conference on Engineering of Modern Electric Systems, ICEMES 2017, Oradea, Romania, June 1-2, 2017, ISBN: 978-1-5090-6073-3, WOS: 000427085200040, pp. 172 – 175, 2017.
Digital Object Identifier: 10.1109/EMES.2017.7980407.
5. Sanda Dale, **Claudiu Raul Costea**, S. Zsolt, *Functionality Extension for a D.C. Motor Speed Control Didactic System with PID Controller,* The Scientific Bulletin of Electrical Engineering Faculty, Volume 18, Issue 2, Publisher De Gruyter Open, ISSN (Online) 2286-2455, pp. 59–62, November 2018.
Digital Object Identifier: https://doi.org/10.1515/sbeef-2017-0036.
6. **Claudiu Raul Costea**, Helga Silaghi, Zoltan Kovendi, Gabriela Tonţ, *Real Time Determination of Instantaneous Power Flow from Three-phase Electrical Circuits in Non-symmetric Situations by Using ACE2000*, Proceedings of 2019 15th International Conference on Engineering of Modern Electric Systems, ICEMES 2019, Oradea, Romania, June 13-14, 2019, ISBN: 978-1-7281-0774-5, WOS: 000503434500013, pp. 49-52, 2019.
Digital Object Identifier: 10.1109/EMES.2019.8795165.
7. Gabriela Tonţ, Dan George Tonţ, **Claudiu Raul Costea**, Zoltan Kovendi, *Multi-Stage Fuzzy Approach of Stochastic Events Impact on Dependable Systems*, Proceedings of 2019 15th International Conference on Engineering of Modern Electric Systems, ICEMES 2019, Oradea, Romania, June 13-14, 2019, ISBN: 978-1-7281-0774-5, WOS: 000503434500030, pp. 117-120, 2019.
Digital Object Identifier: 10.1109/EMES.2019.8795216.
8. D. Sas, T. Colosi, H. Silaghi, M. Silaghi, Z. Kovendi, L. Coroiu, E. Gergely, **Claudiu Costea**, C. Dobocan, *Dimensional Study of Matrix of Partial Derivatives of the State Vector (Mpdx) Method*, Journal of Computer Science and Control Systems, Vol. 13, Nr. 2, October 2020, P-ISSN: 1844-6043, E-ISSN: 2067-2101, pp. 20-25, 2020.
9. **Claudiu Raul Costea**, Helga Silaghi, Zoltan Kovendi, Gabriela Tonţ, *Procedural and Software Development of a Jurybased Stability Analysis Method for Control Systems*, Proceedings of 16th International Conference on Engineering of Modern Electric Systems, ICEMES 2021, Oradea, Romania, June 10-11, 2021, Electronic ISBN: 978-1-6654-4995-3, Print ISBN: 978-1-6654-4996-0, WOS:000855847300014, pp. 52-55, 2021.
Digital Object Identifier: 10.1109/EMES52337.2021.9484124.
10. Helga Silaghi, Viorica Spoială, Sanda Dale, **Claudiu Costea**, Tiberiu Barabas, Dragoş Spoială, Andrei Silaghi, *Field Orientation Control of a PMSM Electrical Drive System with Application in Hybrid Electric Vehicle*, Proceedings of 2022 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2022 (THETA 23), Cluj-Napoca, Romania, May 19-21, 2022, ISBN 978-166547933-2, WOS: 000890261900028, pp. 165-170, 2022.
Digital Object Identifier: 10.1109/AQTR55203.2022.9802045.
11. Helga Silaghi, Viorica Spoială, **Claudiu Costea**, Liliana Măgdoiu, Jan Gamec, Alexandru Marius Silaghi, *Energy Quality Analysis of Electrical Drive Systems with Induction Machine*, Proceedings of 17th International Conference on Engineering of Modern Electric Systems, ICEMES 2023, Oradea, Romania, June 9-10, 2023, Electronic ISBN: 979-8-3503-1063-4, 2023.
Digital Object Identifier: 10.1109/EMES58375.2023.10171725.
12. H. Silaghi, **Claudiu Raul Costea**, L.M. Măgdoiu, M. Silaghi, T. Barabas, S.V. Abrudan Caciora, *Designing Actuated Medical Robots for Safe Human Interaction – A Real Challenge*, The Scientific Bulletin of Electrical Engineering Faculty, Volume 24: Issue 1, eISSN: 2286-2455, pp. 51-55, June 2024.
Digital Object Identifier: https://doi.org/10.2478/sbeef-2024-0009.

13. **Claudiu Raul Costea**, Helga Silaghi, Zoltan Kovendi, Marius Romocea, *Industrial Processes Modeled with Petri Nets*, Proceedings of 18th International Conference on Engineering of Modern Electric Systems, ICEMES 2025, Oradea, Romania, May 29-30, 2025, Electronic ISBN: 979-8-3315-2577-4, Electronic ISSN: 2836-9866, 2025.
Digital Object Identifier: 10.1109/EMES65692.2025.11045616.

D – Lucrări publicate în ultimii 10 ani in reviste și volume de conferinţe cu referenţi (neindexate)

Data
20.10.2026

Ș.l. dr.ing. Costea Claudiu Raul