

LISTA DE LUCRĂRI

Facultatea de Inginerie Electrică și Tehnologia Informației
Departamentul de Ingineria Sistemelor Automate și Management
Nume: asist. dr.ing. Costea Claudiu Raul

A) CELE MAI RELEVANTE/ REPREZENTATIVE LUCRĂRI (maxim 10 lucrări)

1. **Claudiu Raul Costea**, Mihail Abrudean, Helga Maria Silaghi, Marius Alexandru Silaghi, *Control of Flow Rate with Fuzzy Logic for Ball Mill*, Proceedings of 2010 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2010, THETA 17th edition, Cluj-Napoca, Romania, May 28-30, 2010, ISBN 978-1-4244-6722-8, pp. 153-156, 2010.
2. **Claudiu Costea**, Helga Silaghi, Marius Silaghi, Paul Silaghi, *Mill Speed Control Using Programmable Logic Controllers*, Selected Topics in Mathematical Methods and Computational Techniques in Electrical Engineering, Proceedings of the 12th WSEAS International Conference on Mathematical Methods and Computational Techniques in Electrical Engineering, MMACTEE 2010, Timișoara, Romania, October 21-23, 2010, ISSN 1792-5967, ISBN 978-960-474-238-7, pp. 26-30, 2010.
3. **Claudiu Raul Costea**, Helga Silaghi, Ulrich L. Rohde, Alexandru Marius Silaghi, *Grinding Circuit Control Using Programmable Logic Controllers*, Recent Advances in Signal Processing, Computational Geometry and Systems Theory, Proceedings of the 11th WSEAS International Conference on Systems Theory and Scientific Computation, ISTASC 2011, Florence, Italy, August 23-25, 2011, ISBN 978-1-61804-027-5, pp. 48-52, 2011.
4. Sanda Dale, Helga Silaghi, **Claudiu Costea**, *Procedural and Software Development of a Liapunov-based Stability Analysis Method for Interpolative-type Control Systems*, Proceedings of the 17th International Conference on System Theory, Control and Computing, ICSTCC 2013, Sinaia, Romania, October 11-13, 2013, ISBN 978-1-4799-2228-4, pp. 156-159, 2013.
5. **Claudiu Raul Costea**, Helga Silaghi, Eugen Ioan Gergely, Gesa Husi, Laura Coroiu, Zoltan Nagy, *Approach of PID Controller Tuning for Ball Mill*, Proceedings of 2014 International Symposium on Fundamentals of Electrical Engineering, ISFEE 2014, Bucharest, Romania, November 28-29, 2014, ISBN 978-1-4799-6822-0, pp. 371-374, 2014.
6. **Claudiu Raul Costea**, H.M. Silaghi, D. Zmaranda, M.A. Silaghi, *Control System Architecture for a Cement Mill based on Fuzzy Logic*, International Journal of Computers, Communications & Control, Vol. 10, No. 2, April, 2015, ISSN 1841-9836, pp. 165-173, 2015.
7. Eugen Ioan Gergely, **Claudiu Raul Costea**, Laura Coroiu, Geza Husi, Helga Silaghi, *Method for Identifying the Environmental Noise Model for City Traffic*, Proceedings of the 13th International Conference on Engineering of Modern Electric Systems, ICMES 2015, Oradea, Romania, June 11-12, 2015, ISBN 978-1-4799-7651-5, pp. 195-198, 2015.
8. Helga Silaghi, Viorica Spoială, Eugen Gergely, **Claudiu Costea**, Tiberiu Barabas, *Analysis of Two-Phase Asynchronous Motor with Non-orthogonal Windings in Dynamic Regime*, Proceedings of the 13th International Conference on Engineering of Modern Electric Systems, ICMES 2015, Oradea, Romania, June 11-12, 2015, ISBN 978-1-4799-7651-5, pp. 203-206, 2015.

B) TEZA DE DOCTORAT

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

C) CĂRȚI ȘI CAPITOLE ÎN CĂRȚI

1. Helga Silaghi, Viorica Spoială, **Claudiu Costea**, *Acționări electrice – îndrumător de laborator*, Litografiat, 126 pg, 2008.
2. **Costea Claudiu**, Bara Alexandru, *Ingineria Reglării Automate – îndrumător de laborator*, Litografiat, 66 pg, 2009.
3. **Claudiu Raul Costea**, *Controlul proceselor cu aplicații la fabricarea cimentului*, Editura Universității din Oradea, ISBN 978-606-10-1475-0, 129 pagini, 2015.

D) ARTICOLE/ STUDII IN EXTENSO PUBLICATE IN REVISTE DIN FLUXUL ȘTIINȚIFIC INTERNAȚIONAL PRINCIPAL

D1) Articole publicate în jurnale din fluxul științific internațional principal (articole ISI indexate în Thomson Reuters – Web of Science)

1. **Claudiu Raul Costea**, H.M. Silaghi, D. Zmaranda, M.A. Silaghi, *Control System Architecture for a Cement Mill based on Fuzzy Logic*, International Journal of Computers, Communications & Control, Vol. 10, No. 2, April, 2015, ISSN 1841-9836, pp. 165-173, 2015.

D2) Lucrări publicate în reviste din fluxul științific internațional principal (Proceedings Paper ISI, indexate în Thomson Reuters)

1. Liliana Marilena Matica, Helga Silaghi, Zoltan Kovendi, **Claudiu Costea**, *Non-symmetry Factor Computation in Three-Phase Systems*, Proceedings of the 8th International Symposium on Advanced Topics in Electrical Engineering, ATEE 2013, Bucharest, Romania, May 23-25, 2013, ISBN 978-1-4673-5979-5, pp. 134-138, 2013.
2. Sanda Dale, Helga Silaghi, **Claudiu Costea**, *Procedural and Software Development of a Liapunov-based Stability Analysis Method for Interpolative-type Control Systems*, Proceedings of the 17th International Conference on System Theory, Control and Computing, ICSTCC 2013, Sinaia, Romania, October 11-13, 2013, ISBN 978-1-4799-2228-4, pp. 156-159, 2013.
3. Eugen Ioan Gergely, **Claudiu Raul Costea**, Laura Coroiu, Geza Husi, Helga Silaghi, *Method for Identifying the Environmental Noise Model for City Traffic*, Proceedings of the 13th International Conference on Engineering of Modern Electric Systems, ICEMES 2015, Oradea, Romania, June 11-12, 2015, ISBN 978-1-4799-7651-5, pp. 195-198, 2015.
4. Helga Silaghi, Viorica Spoială, Eugen Gergely, **Claudiu Costea**, Tiberiu Barabas, *Analysis of Two-Phase Asynchronous Motor with Non-orthogonal Windings in Dynamic Regime*, Proceedings of the 13th International Conference on Engineering of Modern Electric Systems, ICEMES 2015, Oradea, Romania, June 11-12, 2015, ISBN 978-1-4799-7651-5, pp. 203-206, 2015.

E) PUBLICAȚII IN EXTENSO, APĂRUTE ÎN VOLUMELE PRINCIPALELOR CONFERINȚE INTERNAȚIONALE DE SPECIALITATE

1. **Claudiu Costea**, *PHP Language Used for Faculty Site*, Journal of Computer Science and Control Systems, 7th International Conference on Renewable Sources and Environmental Electro-Technologies, RSEE 2008, Oradea, Romania, May 29-30, 2008, ISSN 1844-6043, pp. 127-130, 2008.
2. Helga Silaghi, **Claudiu Costea**, *Wind Speed Prediction Using Box-Jenkins Method*, Journal of Computer Science and Control Systems, 7th International Conference on Renewable Sources and Environmental Electro-Technologies, RSEE 2008, Oradea, Romania, May 29-30, 2008, ISSN 1844-6043, pp. 208-212, 2008.

3. **Claudiu Costea**, *Analysis of Thermal Efficiency in Geothermal Power Station Using a Simulink Model*, Journal of Computer Science and Control Systems, Vol. 2, Nr. 2, 10th International Conference on Engineering of Modern Electric Systems, EMES 2009, Oradea, Romania, May 27-29, 2009, ISSN 1844-6043, pp. 84-87, 2009.
4. Alexandru Marius Silaghi, Helga Silaghi, Mircea Pantea, **Claudiu Costea**, *About the Use of Induction Generators for Micro Hydro Power Plants*, Journal of Electrical and Electronics Engineering, Vol. 2, Nr. 2, 10th International Conference on Engineering of Modern Electric Systems, EMES 2009, Oradea, Romania, May 27-29, 2009, ISSN 1844-6035, pp. 85-88, 2009.
5. **Claudiu Raul Costea**, Mihail Abrudean, Helga Maria Silaghi, Marius Alexandru Silaghi, *Control of Flow Rate with Fuzzy Logic for Ball Mill*, Proceedings of 2010 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2010, THETA 17th edition, Cluj-Napoca, Romania, May 28-30, 2010, ISBN 978-1-4244-6722-8, pp. 153-156, 2010.
6. **Claudiu Raul Costea**, Helga Silaghi, Eugen Gergely, *Analysis of the Performances of an Air Separator for a Cement Particle Classification*, Journal of Computer Science and Control Systems, Vol. 3, Nr. 1, 8th International Conference on Advances in Electro-Technologies, ICAdET 2010, Oradea, Romania, May 27-28, 2010, ISSN 1844-6043, pp. 37-40, 2010.
7. **Claudiu Raul Costea**, Alexandru Marius Silaghi, *Approach of PID Controller Tuning for Geothermal Systems*, Journal of Computer Science and Control Systems, Vol. 3, Nr. 1, 8th International Conference on Advances in Electro-Technologies, ICAdET 2010, Oradea, Romania, May 27-28, 2010, ISSN 1844-6043, pp.41-44, 2010.
8. **Claudiu Costea**, Helga Silaghi, Marius Silaghi, Paul Silaghi, *Mill Speed Control Using Programmable Logic Controllers*, Selected Topics in Mathematical Methods and Computational Techniques in Electrical Engineering, Proceedings of the 12th WSEAS International Conference on Mathematical Methods and Computational Techniques in Electrical Engineering, MMACTEE 2010, Timișoara, Romania, October 21-23, 2010, ISSN 1792-5967, ISBN 978-960-474-238-7, pp. 26-30, 2010.
9. **Claudiu Raul Costea**, Helga Silaghi, Zoltan Kovendi, *The Influence of Ball Charge and Media Size Distribution in Grinding Plant*, Journal of Computer Science and Control Systems, Vol. 4, Nr. 1, 11th International Conference on Engineering of Modern Electric Systems, EMES 2011, Oradea, Romania, May 26-27, 2011, ISSN 1844-6043, pp. 39-42, 2011.
10. Zoltan Kovendi, Marilena Liliana Matica, **Claudiu Raul Costea**, *Kinematic Analysis for an Industrial Robot RRRRRR – Type with the Use of Denavit-Hartenberg Convention*, Journal of Computer Science and Control Systems, Vol. 4, Nr. 1, 11th International Conference on Engineering of Modern Electric Systems, EMES 2011, Oradea, Romania, May 26-27, 2011, ISSN 1844-6043, pp. 61-64, 2011.
11. **Claudiu Raul Costea**, Helga Silaghi, Ulrich L. Rohde, Alexandru Marius Silaghi, *Grinding Circuit Control Using Programmable Logic Controllers*, Recent Advances in Signal Processing, Computational Geometry and Systems Theory, Proceedings of the 11th WSEAS International Conference on Systems Theory and Scientific Computation, ISTASC 2011, Florence, Italy, August 23-25, 2011, ISBN 978-1-61804-027-5, pp. 48-52, 2011.
12. **Claudiu Raul Costea**, *A Control Design for Grinding Systems with Feedforward Compensation*, Journal of Computer Science and Control Systems, Vol. 5, Nr. 1, 9th International Conference on Advances in Electro-Technologies, ICAdET 2012, Oradea, Romania, May 24-25, 2012, ISSN 1844-6043, pp. 23-26, 2012.
13. **Claudiu Raul Costea**, Helga Silaghi, *Wind Speed Model Prediction Using Linear Parametric Models*, Journal of Computer Science and Control Systems, Vol. 6, Nr. 1, 12th International Conference on Engineering of Modern Electric Systems, EMES 2013, Oradea, Romania, May 30-31, 2013, ISSN 1844-6043, pp. 26-29, 2013.

14. **Claudiu Raul Costea**, Helga Silaghi, Eugen Ioan Gergely, Gesa Husi, Laura Coroiu, Zoltan Nagy, *Approach of PID Controller Tuning for Ball Mill*, Proceedings of 2014 International Symposium on Fundamentals of Electrical Engineering, ISFEE 2014, Bucharest, Romania, November 28-29, 2014, ISBN 978-1-4799-6822-0, pp. 371-374, 2014.

F) ALTE LUCRĂRI

1. Helga Silaghi, Teodor Maghiar, Marius Silaghi, **Claudiu Costea**, Laura Coroiu, *Permanent Magnet Synchronous Generator Used for Variable-Speed Wind Generation System*, Colaborări științifice și didactice în domeniul surselor de energii geotermale între Universitatea din Oradea și Universitatea din Debrecen, ISBN 978-973-759-630-7, pp. 52-56, 2008.
2. Alexandru Marius Silaghi, Teodor Maghiar, Helga Maria Silaghi, Mircea Dănuț Pantea, Laura Coroiu, **Claudiu Costea**, *Some Aspects Regarding the Use of Induction Generators for Micro Hydro Power Plants*, Colaborări științifice și didactice în domeniul surselor de energii geotermale între Universitatea din Oradea și Universitatea din Debrecen, ISBN 978-973-759-630-7, pp. 112-117, 2008.
3. **Claudiu Costea**, *Online System for Graduates Situation*, Annals of the University of Craiova, Series: Automation, Computers, Electronics and Mechatronics, Vol.6, No.1, Craiova, ISSN 1841-0626, pp. 6-11, 2009.
4. **Claudiu Raul Costea**, Helga Maria Silaghi, Doina Zmaranda, Marius Alexandru Silaghi, *Control of Feed Flow Rate with Fuzzy Logic for a Cement Mill*, Abstracts of ICCCC Papers, Vol. 4 (2014), 5th International Conference on Computers, Communications and Control, ICCCC 2014, Băile Felix, Romania, May 6-10, 2014, ISSN 1844-4334, p. 39, 2014.
5. Helga Silaghi, Viorica Spoială, Sanda Dale, **Claudiu Costea**, Jan Papaj, *Improved Direct Torque Control for Induction Machine with PWM Inverter*, Journal of Computer Science and Control Systems, Vol. 7, Nr. 1, 10th International Conference on Advances in Electro-Technologies, ICAdET 2014, Oradea, Romania, May 29-30, 2014, ISSN 1844-6043, pp. 47-50, 2014.

Oradea, 2015

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