

LISTA DE LUCRĂRI

1. Teza(-ele) de doctorat

Sanda Dale, *Contribuții la studiul sistemelor de reglare de tip interpolativ*, Universitatea "Politehnica" Timișoara, 2006.
Coordonator științific: prof. univ. dr. ing. Toma Leonida Dragomir.

2. Publicatii:

A) Cărți publicate, îndrumare/culegeri publicate în edituri cu ISBN:

1. **Sanda Dale**, *Sisteme fuzzy și rețele neurale*- suport de curs, pe suport CD, Ed. Universității din Oradea, ISBN 978-606-10-2247-2, Oradea, 2023.
2. S. Dale, *Sisteme fuzzy și rețele neurale* - îndrumător de laborator, pe suport CD, Ed. Universității din Oradea, ISBN 978-606-10-2246-5, Oradea, 2023.
3. **Sanda Dale**, *Contribuții la studiul sistemelor de reglare cu reglatoare de tip interpolativ*, Colecția „Teze de doctorat”, seria Automatică, nr.1, Ed. Politehnica, Timișoara, ISBN(10) 973-625-376-7, ISBN(13) 978-973-625-376-8, ISSN 1842-5208, 2006.

B) capitole publicate în volume colective,

1. **Sanda Dale**, T.L. Dragomir, *Interpolative-type Control Solutions in: Soft Computing Based Modeling in Intelligent Systems*, Series in: „Studies in Computational Intelligence” vol. 196, Berlin, Springer Verlag, ISBN 978-3-642-00447-6, Editori: V. E. Balas, J. C. Fodor, and AM. R. Varkonyi-Koczy, 2009, pp. 169-203.
https://link.springer.com/chapter/10.1007/978-3-642-00448-3_9

3. Articole/studii publicate:

A) în reviste de specialitate de circulație internațională recunoscute cotate ISI sau indexate în baze de date internaționale specifice domeniului, care fac un proces de selecție a revistelor pe baza unor criterii de performanță;

1. Adrian Codoban, Helga Silaghi, **Sanda Dale**, Vlad Muresan, *Remote Monitoring the Parameters of Interest in the 18O Isotope Separation Technological Process*, Processes 2023, 11(6), 1594; May 2023, Special Issue Dynamics Analysis and Intelligent Control in Industrial Engineering (Q2), <https://1710q75o8-y-https-www-webofscience-com.z-e-nformation.ro/wos/woscc/full-record/WOS:001015943500001>
2. Helga Silaghi, Viorica Spoiala, Alexandru Marius Silaghi, Tiberia Ilias, Gyrodi Cornelia, Claudiu Costea, **Sanda Dale**, Ovidiu Cristian Fratila, *Automatic Control of Colonoscope Movement for Modern Colonoscopy*, International Journal of Advanced Computer Science and Applications IJACSA, Volume 10, Issue 3, Pages: 16-19, 2019, <https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000890261900028>
3. **Sanda Dale**, Helga Silaghi, D. Zmaranda, U. Rohde, *Intelligent Design Environment for Second-Order Positioning Systems*, International Journal of Computers Communications and Control, Vol.10, No 1, 2015.
<https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000345261400004>
4. S. Dale, H. Silaghi, C. Costea, *Procedural and Software Development of a Liapunov-based Stability Analysis Method for Interpolative-type Control Systems*, Proceedings of 17th International Conference on System Theory, Control and Computing ICSTCC 2013, Sinaia, 2013, pp. 156-159.

B) indexate în baze de date internaționale recunoscute (BDI).

1. S. Popa, R. Reiz, **Sanda Dale**, *Wi-Fi Radio frequency Radiations Level Measurements in Different Work Environment Locations*, Journal of Electrical and Electronics Engineering, vol. 14, no.2, 2021.
<https://www.scopus.com/record/display.uri?eid=2-s2.0-85124277889&origin=resultslist&sort=plf-f&src=s&sid=ce57afc5829e49508a759c655b15a5b2&sot=b&sdt=b&s=AUTHOR-NAME%28reiz%2C+r.%29&sl=106&sessionSearchId=ce57afc5829e49508a759c655b15a5b2>
2. S. Dale, C.R. 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, Târgoviște, ISSN (Online) 2286-2455, pp. 59–62, November 2018, <https://sciendo.com/de/article/10.1515/sbeef-2017-0036>.
3. H. Silaghi, V. Spoială, S. Dale, C. Costea, J. Papaj, *Improved Direct Torque Control for Induction Machine with PWM Inverter*, Journal of Computer Science and Control Systems, vol.7, nr.1, ISSN 1844-6043, Oradea, 2014, pp. 47-50,
<https://web.b.ebscohost.com/abstract?direct=true&profile=ehost&scope=site&authtype=crawler&jrnl=18446043&AN=101947192&h=aJIf6Pm%2f48xX3S%2fuH%2bOH3zc5fNju2Gz8%2fQQIOOCFY9UfZfVxf1PC7UvIRDMvIFkK1Rn8bk%2b5qc1YgdkB0%2bGt3Q%3d%3d&url=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrnl%3d18446043%26AN%3d101947192>
4. C. Rusu, A. Bara, E. Szoke, S. Dale, *Fuzzy Based Reactive Controller for a Small Mobile Robot Platform*, Journal of Computer Science and Control Systems, vol.5, nr.1, ISSN 1844-6043, Oradea, 2012, pp. 89-94,
<https://search.proquest.com/openview/8b5968bffb9e34dd2e7ee3e86b952f43/1?pq-origsite=gscholar&cbl=60389>

5. Z.T. Nagy, **S. Dale**, A. Bara, *Microcontroller Based PID Controller*, Journal of Computer Science and Control Systems, vol. 3, nr.2, ISSN 1844-6043, Oradea, 2010, pp.59-62, https://www.researchgate.net/publication/49600278_Microcontroller_Based_PID_Controller
6. **S. Dale**, *Interpolative Control for a d.c. Motor Drive with Genetic Algorithm-based Tuning*, Proceedings of EMES'09 in Journal of Computer Science and Control Systems, ISSN 1844-6043, Oradea, 2009, pp.93-96, https://www.researchgate.net/publication/38112366_Interpolative_Control_for_a_dc_Motor_Drive_With_Genetic_Algorithm-based_Tuning

C) în alte reviste de specialitate de circulație internațională ;

D) în reviste din țară recunoscute C.N.C.S.I.S.;

1. H. Silaghi, V. Spoială, **S. Dale**, D. Zmaranda, E. Fazecas, *Series Active Power Filters Control for Power Converters of Electrical Drives*, Scientific Buletin of Electrical Engineering Faculty, Târgoviște, Nr. 2/2012.
2. **S. Dale**, A. Bara, G. Gabor, *Interpolative Control Structure Design for a Heat Exchanger in a Geothermal Power Plant*, Journal of Computer Science and Control Systems, Oradea, 2008, pp. 131-134.
3. **S. Dale**, T.L. Dragomir, *Design procedures of some interpolative control structures with robustness properties and limitations*, CEAI Journal, Bucuresti, vol. 10, no.1, 2008, pp. 3-14.
4. **S. Dale**, *Interpolative Controllers Designing Procedures based on Fuzzy Controllers with Synthetic Input*, EMES'07, Oradea, Analele Universității din Oradea, fascicula Electrotehnică, Oradea, pg. 168-173, 2007.
5. A. Bara, **S. Dale**, *Fuzzy Control Synthesis based on Sliding Mode Theory*, EMES'07, Oradea, Analele Universității din Oradea, fascicula Electrotehnică, Oradea, pg. 152-155, 2007.
6. A. Bara, **S. Dale**, *Application of Fuzzy Systems to DC Drive Control*, EMES'07, Oradea, Analele Universității din Oradea, fascicula Electrotehnică, Oradea, pg. 156-159, 2007.
7. **S. Dale**, *Design Procedures for Interpolative Blocks used as Controllers with Robustness Properties*, Buletinul Științific al Universității „Politehnica” din Timișoara, seria Automatică și Calculatoare, vol. 52(66), fascicula 3, 2007.
8. **Dale, S.**, *Contributions on Interpolative Control Systems Study*, rezumat teză de doctorat, CEAI nr. 8/2006 (Control Engineering and Applied Informatics), București, pg. 63, 2006.
9. **Dale, S.**, Dragomir, T.L., *Interpolative-type Control Solutions for a “Ball and Beam” System*, CEAI nr. 8/2006 (Control Engineering and Applied Informatics), București, pg. 3-14, 2006.
10. Bara, A., **Dale, S.**, *Solutions for Implementation of Interpolative Methods Based on Rules in Control Structures*, ACAM (Automatic Computing and Applied Informatics), vol.II, no.1, Cluj-Napoca, pg. 7-15, 2005.
11. Vladu, E., **Dale, S.**, *Using Genetic Algorithms in MLP Neural Networks Training*, CONTI'04, Timișoara, Buletinul Științific al Universității Politehnica din Timișoara, seria Automatică și Calculatoare, vol.4/2004, pg. 139-144, 2004.

E) în alte reviste de specialitate de circulație națională cu (ISBN, ISSN)

4. Articole/studii publicate:

A) Articole/studii publicate în volumele unor manifestări științifice: (se precizeaza daca este cazul - cotate ISI sau indexate în baze de date internaționale-BDI).

1. H. Silaghi, V. Spoială, C. Costea, D. Spoială, **Sanda Dale**, T. Barabas, A. Silaghi, *Field Orientation Control of a PMSM Electrical Drive System with Application in Hybrid Electric Vehicle*, IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2022), DOI: 10.1109/AQTR55203.2022, 19-21 May 2022 <https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000890261900028>
2. Adrian Codoban, Abrudean Mihail Ioan, Helga Silaghi, **Sanda Dale**, Vlad Mureșan, Marius Fișcă, Mihaela-Ligia Ungureșan, Roxana Cordoș, *Monitoring System of Production Installation for the Separation Of Isotope 18O*, 16th International Conference on Engineering of Modern Electric Systems, ICEMES 2021, June 2021, <https://1710q7ewn-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000855847300012>
3. C.R. Costea, **S. Dale**, D. Zmaranda, H. Silaghi, *MATLAB-SIMULINK Modeling for the Well Station of a Geothermal power Plant*, International Conference on Engineering of Modern Electric Systems (EMES), 2017, ISSN (Online) 2286-2455, June 2017, pp. 172-175, <http://ieeexplore.ieee.org/document/7980407>, indexată BDI
4. **S. Dale**, H. Silaghi, D. Zmaranda, G. Gabor, *Numerical algorithms for Lyapunov stability analysis of interpolative control structures*, Proceedings of 6th International Conference on Computers, Communications and Control, Oradea, 2016, <https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000391251000040>, ISI Proceedings
5. L.M. Matica, **S. Dale**, H. Silaghi, G. Gabor, *The Circulation of Current Components, an Analyse about Efficiency of Electrical Power Consumption*, 20th International Conference on System Theory ICSTCC, Control and Computing, Sinaia 2016, <https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000391609900142>, ISI Proceedings
6. A. Bara, **S. Dale**, C. Rusu, H. Silaghi, *DC Electrical Drive Control with Fuzzy Systems*, Proceedings of 13th International Conference on Engineering of Modern Electric Systems, EMES'2015, 11-12 Iunie 2015, Oradea, <https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000363815100050>, ISI Proceedings
7. **Sanda Dale**, H. Silaghi, C. 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, October 11-13, 2013, Sinaia, Romania, pp. 156-159.

- <https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000330660500025>, ISI Proceedings
8. D. Trip, **S. Dale**, V. Popescu, *Digital Control for Switched Mode DC-DC Buck Converters*, Conference Proceedings of the 9th International Symposium on Electronics and Telecommunications ISET'2010, Timișoara, 2010, pp. 99-102, <https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000296356700019>, ISI Proceedings
 9. **S. Dale**, G. Gabor, C. Gyorodi, D. Zmaranda, *Interpolative Control Algorithm Applied on a 3D-Mechatronic System*, Proceedings of 4th International Workshop of Soft Computing Applications, 15-17 July 2010, Arad, Romania, pp. 229-233, ISI Proceedings, IEEE Catalog number CFP1028D-PRT, ISBN 978-1-4244-7982-5, <https://www.researchgate.net/publication/241172213> *Interpolative control algorithm applied on a 3D-mechatronic system*, Indexată BDI.
 10. T.L. Dragomir, A. Codrean, V. Ceregan, **S. Dale**, *Dead time compensation for interpolative-type control systems*, Proceedings of the 4th International Symposium on Computational Intelligence and Intelligent Informatics ISCI'09, ISBN: 978-1-4244-5381-8, Egipt, 2009, pp. 119-124, <https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000275861400018>, ISI Proceedings.
 11. Nagy, Z. ., Bara, A., **Dale, S.**, *Control algorithm of a BLDC Motor*, Proceedings of the 20th International DAAAM Symposium Intelligent Manufacturing & Automation, ISSN 1726-9679, Vienna, Austria, November 25-28, 2009, pp. 1657-1658, 1658 <https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000282335600829>, ISI Proceedings.
 12. Bara, A., **Dale, S.**, Nagy, T.Z., *Comparative Real Time Experimental Study Case for Control Algorithms from the Implementation Point of View*, Proceedings of the 8th WSEAS International Conference on System Science and Simulation in Engineering (ICOSSSE'09), ISSN 1790-2769, ISBN 978-960-474-131-1, Genova, Italy, october 17-19, 2009, pp. 302-306, <https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000276623100052>, ISI Proceedings.
 13. Gabor, G., Zmaranda, D., Gyorodi, C., **Dale, S.**, *Redundancy method used in PLC related applications*, Proceedings of 3rd International Workshop on Soft Computing Applications, SOFA '09, ISBN 978-1-4244-5054-1, Arad, 2009, pp. 119 – 126, <https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000275159600022>, ISI Proceedings.
 14. A. Bara, C. Rusu, **S. Dale**, *DSP Application on PMSM Drive Control for Robot Axis*, Proceedings of the 13th WSEAS International Conference on Systems, Rhodes Island, Greece, 2009, pp. 381-385, <https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000272165400054>, ISI Proceedings.
 15. A. Bara, **S. Dale**, *Dynamic Modelling and Stabilisation of Wheeled Mobile Robot*, Proceedings of the 11th WSEAS International Conference on Mathematical Methods, Computational Techniques and Intelligent Systems MAMETICS'09, Tenerife, Spain, 2009, pp. 87-92, <https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000268805700011>, ISI Proceedings.
 16. **S. Dale**, A. Bara, G. Gabor, *Comparative Study Case for Interpolative-type Synthetic Input Controllers on a Ball and Beam System*, Recent Advances in Fuzzy Systems, Proceedings of 10th WSEAS International Conference on Fuzzy Systems, Praga, Cehia, 2009, pp. 76-83, <https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000265636100012>, ISI Proceedings.
 17. **S. Dale, S.**, A. Bara, *A Simple Method to Develop Interpolative Controllers with Robustness Properties at Step Reference Changes*, Proceedings of AQTR'08, Cluj-Napoca 2008, pp.186-191, <https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000259080000029>, ISI Proceedings
 18. A. Bara, **S. Dale**, *Fuzzy model based predictive control of nonlinear processes*, Proceedings of AQTR'08, Cluj-Napoca 2008, pp.203-206, <https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000259080000032>, ISI Proceedings

B) internaționale recunoscute (cu ISSN sau ISBN) din țară și din străinătate

1. **S. Dale**, A. Bara, Z.T. Nagy, *Lyapunov Analysis for Control Systems with Controllers Based on Shepard Interpolation*, ICAdET 2010 Conference Proceedings in Journal of Computer Science and Control Systems, vol. 3, nr.1, Oradea, 2010.
2. G. Gabor, D., **S. Dale**, A. Teușdea, *Reliability Improving Techniques Using Redundant Structures for the Geothermal Power Plant from the University of Oradea*, Romania, Proceedings of World Geothermal Congress 2010, WGC 2010, 25-29 April 2010, Nusa Dua, Bali, Indonesia, session 26/ Power generation, paper number 2650.
3. **S. Dale**, G. Gabor, A. Bara, *Reduced Complexity Interpolative Control System for a Geothermal Heat Exchanger*, Proceedings of World Geothermal Congress 2010, WGC 2010, 25-29 April 2010, Nusa Dua, Bali, Indonesia, session 26/ Power generation, paper number 2641.
4. **S. Dale**, A. Bara, *Single-Input Controllers Design for a Simple Mecathronic System*, Proceedings of 10th International Carpathian Control Conference, Zakopane, Poland, 2009, pp. 35-38.
5. **Dale, S.**, Bara, A., *Simple Intelligent Controllers based on Rules*, SOFA'05, Szeged-Arad, Proceedings of SOFA'05, pg. 68-72, 2005.
6. Gabor, G., Zmaranda, D., **Dale, S.**, *Method for Implementing a Control System based on Redundant Structures*, SOFA'05, Szeged-Arad, Proceedings of SOFA'05, pg. 73-78, 2005.
7. **Dale, S.**, Bara, A., *Single-input Fuzzy Controller for Angular Position Control of an Inverted Pendulum*, EMES'05, Oradea, Analele Universității din Oradea, fascicula Electrotehnică, Oradea, pg. 189-193, 2005.

8. **Vladu, E.E., Dale, S.,** Training MLP Neural Networks by Means of Genetic Algorithms, CSCS'16, București, 2005, pg. 434-439.
9. **Dale, S.,** Bara, AL., *A Survey of Interpolative Methods based on Rules and Their Application in Control Structures*, SACI'04, Timișoara, Proceedings of SACI'04, pg. 223-230, 2004.
10. **Dale, S., Vladu, E.,** *Neural Direct-Inverse Control of Magnetic Levitation System using GA-based Training Methods*, RSEE'04, Felix Spa, Analele Universității din Oradea, fascicula Electrotehnică, Oradea, pg. 101-104, 2004.
11. Vladu, E., **Dale, S.,** *Evolution of Artificial Neural Networks using Genetic Algorithms*, RSEE'04, Felix Spa, Analele Universității din Oradea, fascicula Electrotehnică, Oradea, pg. 75-79, 2003.
12. **Dale, S.,** *Single Input Interpolative Controllers based on Rules*, SACCS'04, Iași, Proceedings of SACCS'04, CD, 2004.
13. Vladu, E., **Dale, S.,** *Adaptive Control Using Genetic Algorithms for a D.C. Motor Drive at Large Reference Signals*, EMES'03, Felix Spa, Analele Universității din Oradea, fascicula Electrotehnică, pg. 274-277, 2003.
14. Dragomir, T.L., Vladu, E., **Dale, S.,** *Interpolative-type Controller Synthesis Using Genetic Algorithms*, Proceedings of CSCS'14, București, pg. 70-75, 2003
15. Dale, S., Vladu, E., *Using Genetic Algorithms to Improve Hybrid Adaptive-Interpolative System Performances*, RSEE'02, Stâna de Vale, Analele Univ. din Oradea, fascicula Electrotehnică, pg. 17-23, 2002.
16. Dragomir, T.L., **Dale, S.,** *Cases of Using Interpolator Type Blocks in Control Structures*, SACCS'01, Iași, Proceedings of SACCS'01, CD, 2001.
17. Dragomir, T.L., **Dale, S.,** Bălaș, M., *Some Aspects Regarding Interpolative Structures*, Proceedings of IWICS, București, pg. 6-19, 2001.
18. **Dale, S.,** *Intelligent Control Systems, state of the art*, EMES'2001, Felix Spa, Analele Univ. din Oradea, fascicula Electrotehnică, pg. 257-262, 2001.
19. **Dale, S.,** *Interpolative Controllers, study case*, EMES'2001, Felix Spa, Analele Univ. din Oradea, fascicula Electrotehnică, pg. 253-256, 2001.
20. Bara, Al., **Dale, S.,** *Fuzzy Model Identification on the Basis of Square Prediction Error Minimisation*, Cluj-Napoca, Proceedings of A&Q-R'2000, vol.II, pg. 57-61, 2000.
21. **Ungureanu, S.,** *Position Control of an Inverted Pendulum with Interpolation Method based on Rules*, EMES'99, Felix Spa, Analele Univ. din Oradea, fascicula Electrotehnică, pg. 103-107, 1999.
22. Popescu, C., Popescu, D., **Ungureanu, S.,** *The Analyse of the Effectiveness of Using MISR as PRPG*, EMES'98, Felix Spa, Analele Univ. din Oradea, fascicula Electrotehnică, pg. 85-88, 1998.
23. **Ungureanu, S.,** *Fuzzy Modeling of an Inverted Pendulum*, EMES'98, Felix Spa, Analele Univ. din Oradea, fascicula Electrotehnică, pg. 101-105, 1998.
24. **Ungureanu, S.,** Bara, Al., *A Control Problem Solved With Both Fuzzy Logic and Classic Control*, A&Q'98, Cluj-Napoca, Proceedings, fascicula A, pg. A552-A557, 1998.

C) naționale.

5. Brevete de invenție: -

Data completării,
11.07.2023

Semnătura,