

## LIST OF PUBLICATIONS

Candidate: Cristina Ioana Muresan, PhD

Following the PhD degree, only most important ones included (2012-to date).

### Journal papers

1. **Pop, C.-I.**, Festila, Cl., Dulf, E.-H., Gligan, M. (2012), Tracking and Disturbance Rejection in the 13C Cryogenic Separation Column, *Control Engineering and Applied Informatics*, vol. 14, no.1, pp.48-57 (**ISI - factor impact 0.202**)
2. Dulf, E.H., **Pop, C.I.**, Dulf, F. (2012), Systematic Modeling of the (13C) Isotope Cryogenic Distillation Process, *Separation Science and Technology*, vol. 47(8), pp. 1234-1240 DOI:10.1080/01496395.2011.644614 (**ISI - factor de impact 1.164**)
3. Dulf, E.-H., **Pop, C.-I.**, Dulf, F.-V. (2012), Fractional Calculus in 13C Separation Column Control, *Signal, Image and Video Processing*, vol. 6, no. 3, pp.479-485, DOI: 10.1007/s11760-012-0335-z (**ISI - factor de impact 0.409**)
4. **Pop, C.-I.**, Ionescu, C., De Keyser, R., Dulf, E.-H. (2012), Robustness evaluation of Fractional Order Control for Varying Time Delay Processes, *Signal, Image and Video Processing*, vol. 6, no. 3, pp.453-461, DOI: 10.1007/s11760-012-0322-4 (**ISI, factor de impact 0.409**)
5. **Pop, C.-I.**, Ionescu, C. M., De Keyser, R. (2012), Time delay compensation for the secondary processes in a multivariable carbon isotope separation unit, *Chemical Engineering Science*, vol. 80, pp. 205-218, DOI: 10.1016/j.ces.2012.06.043 (**ISI - factor de impact 2.386**)
6. **Muresan, C.I.**, Folea, S., Mois, G., Dulf, E.H. (2013), Development and Implementation of an FPGA Based Fractional Order Controller for a DC Motor, *Elsevier Journal of Mechatronics*, vol. 23, no. 7, pp. 798-804 (**ISI impact factor 1.823**)
7. **Muresan, C.I.** (2013), Simplified Optimization Routine for Tuning Robust Fractional Order Controllers, *American Journal of Computational Mathematics*, ISSN: 2161-1203, vol. 3, no. 3B, pp. 7-12, DOI: 10.4236/ajcm.2013.33B002, paper selected at the Engii Workshop, Beijing, China, 12-14 august 2013 (**BDI**)

8. Dulf, E.-H., **Muresan, C.I.**, Unguresan, M. L. (2014), Modeling the (15N) Isotope Separation Column, *Journal of Mathematical Chemistry*, Vol. 52, No.1, pp. 115-131, DOI: 10.1007/s10910-013-0248-2 (**ISI impact factor 1.145**)
9. **Muresan, C.I.** (2014), Fractional Calculus: From Simple Control Solutions to Complex Implementation Issues, chapter in Machado, J.A.T., Baleanu, D., Luo, A. (eds) "Discontinuity and Complexity in Nonlinear Physical Systems", Nonlinear Systems and Complexity Volume 6, pp. 113-134, ISBN: 978-3-319-01410-4, ISSN: 2195-9994, DOI:10.1007/978-3-319-01411-1\_7, Springer, Switzerland (**Book Chapter**)
10. **Muresan, C.I.**, Dulf, E.H., Ionescu, C. (2014), Robustness Evaluation of a Multivariable Fractional Order PI Controller for Processes with Multiple Time Delays, *Journal of Control and Intelligent Systems*, ActaPress, Vol. 42, No. 2, pp. 112-118, DOI: 10.2316/Journal.201.2014.2.201-2507, March 2014 (**BDI**)
11. **Muresan, C.I.**, Prodan, O., Folea, S. (2014), Tuning Method of Fractional Order Controllers for Vibration Suppression in Smart Structures, *Applied Mechanics and Materials Journal*, Vol. 598, pp. 534-538, paper selected at the 4th International Conference on Mechanics, Simulation and Control, DOI: 10.4028/www.scientific.net/AMM.598.534, 21-22 June, Moscow, Russia (**ISI**)
12. **Muresan, C.I.**, Dulf, E.H., Both, R. (2015), Comparative analysis of different control strategies for a train of cryogenic 13C separation columns, *Chemical Engineering and Technology*, vol. 38, no. 4, pp. 619-631, DOI: 10.1002/ceat.201400550 (**ISI impact factor 2.442**)
13. **Muresan, C.I.**, Ionescu, C., Folea, S., De Keyser, R. (2015), Fractional Order Control of Unstable Processes: The Magnetic Levitation Study Case, *Journal of Nonlinear Dynamics*, Vol. 80, No. 4, pp. 1761-1772, DOI: 10.1007/s11071-014-1335-z (**ISI impact factor 3.000**)
14. Dulf, E.-H., Dulf, F.V., **Muresan, C.I.** (2015), Fractional Model of the Cryogenic (13C) Isotope Separation Column, *Chemical Engineering Communications*, Vol. 202, No. 12, pp. 1600-1606, DOI:10.1080/00986445.2014.968709 (**ISI impact factor 1.433**)
15. Ionescu, C., **Muresan, C.I.** (2015), Sliding mode control for a class of Sub-systems with fractional order varying trajectory dynamics, *Fractional Calculus and Applied Analysis*, Vol. 18, No. 6,

- pp. 1441-1451, DOI: 10.1515/fca-2015-0083, (**ISI impact factor 2.246**)
16. **Muresan, C.I.**, Dutta, A., Dulf, E.H., Pinar, Z., Maxim, A., Ionescu, C.M. (2016), Tuning algorithms for fractional order internal model controllers for time delay processes, *International Journal of Control*, Vol. 89, No. 3, pp. 579-593, DOI: 10.1080/00207179.2015.1086027 (**ISI impact factor 2.208**)
  17. Folea, S., **Muresan, C.I.**, De Keyser, R., Ionescu, C. (2016), Theoretical Analysis and Experimental Validation of a Simplified Fractional Order Controller for a Magnetic Levitation System, *IEEE Transactions on Control Systems Technology*, vol. 24, no. 2, pp. 756 – 763, DOI: 10.1109/TCST.2015.2446496 (**ISI impact factor 3.882**)
  18. **Muresan, C.I.**, Dulf, E.H., Both, R. (2016), Vector Based Tuning and Experimental Validation of Fractional Order PI/PD Controllers, *Journal of Nonlinear Dynamics*, DOI: 10.1007/s11071-015-2328-2, Vol. 84, No. 1, pp. 179-188 (**ISI impact factor 3.464**)
  19. De Keyser, R., **Muresan, C.I.**, Ionescu, C. (2016), A Novel Auto-tuning Method for Fractional Order PI/PD Controllers, *ISA Transactions*, Vol. 62, pp. 268-275, DOI: 10.1016/j.isatra.2016.01.021 (**ISI impact factor 3.394**)
  20. Folea, S., Mois, G., **Muresan, C.I.**, Miclea, L., De Keyser, R., Cirstea, M. (2016), A Portable Implementation on Industrial Devices of a Predictive Controller using Graphical Programming, *IEEE Transactions On Industrial Informatics*, Vol. 12, No. 2, pp. 1-9, ISSN: 1551-3203, DOI: 10.1109/TII.2016.2532118 (**ISI impact factor 6.764**)
  21. Harja, G., Nascu, I., **Muresan, C.I.**, Nascu, I. (2016) Improvements in dissolved oxygen control of an activated sludge wastewater treatment process, *Circuits, Systems & Signal Processing*, Vol. 35, No. 6, pp. 2259-2281, DOI: 10.1007/s00034-016-0282-y (**ISI impact factor 1.694**)
  22. **Muresan, C.I.**, Dulf, E.H., Prodan, O. (2016), A Fractional Order Controller For Seismic Mitigation Of Structures Equipped With Viscoelastic Mass Dampers, *Journal of Vibration and Control*, DOI:10.1177/1077546314557553, Vol. 22, no. 8, pp. 1980-1992 (**ISI impact factor 2.101**)
  23. **Muresan, C.I.**, Dulf, E.H., Copot, C., De Keyser, R., Ionescu, C.M. (2016), Design and analysis of a multivariable fractional order

- controller for a non-minimum phase system, DOI: 10.1177/1077546315575433, *Journal of Vibration and Control*, Vol. 22 no. 9, pp. 2187-2195 (**ISI impact factor 2.101**)
24. Birs, I.R., **Muresan, C.I.**, Folea, S., Prodan, O. (2016), A Comparison between Integer and Fractional Order PD $\mu$  Controllers for Vibration Suppression, *Applied Mathematics and Nonlinear Sciences*, Vol. 1, No. 1, pp. 273-282, DOI:10.21042/AMNS.2016.1.00022 (**BDI**)
25. Prodan, O., Birs, I.R., Folea, S., **Muresan, C. I.** (2016), Seismic Mitigation in Civil Structures Using a Fractional Order PD Controller, *International Journal of Structural and Civil Engineering Research*, Vol. 5, No. 2, pp. 93-96, May 2016. DOI: 10.18178/ijscer.5.2.93-96 (**BDI**)
26. Dulf, E.H., Timis, D., **Muresan, C.I.** (2017), Robust Fractional Order Controllers for Distributed Systems, *Acta Polytechnica Hungarica*, vol. 14, no. 1, pp. 163-176, DOI: 10.12700/APH.14.1.2017.1.11 (**ISI impact factor 0.745**)
27. Folea, S., De Keyser, R., Birs, I.R., **Muresan, C.I.**, Ionescu, C.I. (2017), Discrete-Time Implementation and Experimental Validation of a Fractional Order PD Controller for Vibration Suppression in Airplane Wings, *Acta Polytechnica Hungarica*, vol. 14, no. 1, pp. 191-206, DOI: 10.12700/APH.14.1.2017.1.13 (**ISI impact factor 0.745**)
28. **Muresan, C.I.**, Tenreiro Machado, J.A., Ortigueira, M.D. (2017), Editorial special issue: "Dynamics and Control of Fractional Order Systems", *International Journal of Dynamics and Control*, vol. 5, no. 1, pp. 1-3, DOI: 10.1007/s40435-016-0251-0 (**BDI**)
29. **Muresan, C.I.**, Ostalczyk, P., Ortigueira, M.D. (2017), Editorial special issue on "Fractional Calculus Applications in Modeling and Design of Control Systems", *Journal of Applied Nonlinear Dynamics*, vol. 6(2), pp. 131-134, DOI: 10.5890/JAND.2017.06.001 (**BDI**)
30. De Keyser, R., **Muresan, C.I.**, Ionescu, C.M. (2018), An efficient algorithm for low-order discrete-time implementation of fractional order transfer functions, *ISA Transactions*, vol. 74, pp. 229-238, DOI: 10.1016/j.isatra.2018.01.026 (**ISI Impact factor 4.343**)
31. **Muresan, C.I.**, Folea, S.C., Birs, I.R., Ionescu, C.M. (2018), A Novel Fractional Order Model and Controller for Vibration Suppression in Flexible Smart Beam, *Nonlinear Dynamics*, vol. 93, no. 2, pp.

- 525-541, DOI: 10.1007/s11071-018-4207-0 (**ISI impact factor 4.604**)
32. **Muresan, C.I.**, Copot, C., Birs, I.R., De Keyser, R., Vanlanduit, S., Ionescu, C. (2018), Experimental validation of a novel auto-tuning method for a fractional order PI controller on an UR10 robot, *Algorithms*, vol. 11(7), pp. 95, DOI: 10.3390/a11070095 (**ISI Emerging citations Index**)
  33. Copot, C., **Muresan, C.I.**, Ionescu, C., Vanlanduit, S., De Keyser, R. (2018), Calibration of UR10 robot controller through simple auto-tuning approach, *Robotics*, vol. 7(3), pp. 35, DOI: 10.3390/robotics7030035 (**ISI Emerging citations Index**)
  34. Markowski, K., Birs, I.R., **Muresan, C.I.**, Prodan, O. (2018), Different fractional order models for an experimental smart beam system, *Bulletin Of The Polish Academy Of Sciences-Technical Sciences*, Vol. 66, no. 4, pp. 485-493, DOI: 10.24425/124265 (**ISI impact factor 1.361**)
  35. **Muresan, C.I.**, Ionescu, C., Dulf, E.H., Rusu-Both, R., Folea, S. (2018), Advantage of low-cost predictive control: study case on a train of distillation columns, *Journal of Chemical Engineering and Technology*, vol. 41, no. 10, pp. 1936-1948, DOI: 10.1002/ceat.201700529 (**ISI impact factor 2.418**)
  36. **Muresan, C.I.**, Birs, I.R., Folea, S., Ionescu, C. (2018), Fractional order based velocity control system for a nanorobot in non-Newtonian fluids, *Bulletin Of The Polish Academy Of Sciences-Technical Sciences*, Vol. 66, No. 6, pp. 991-997, DOI: 10.24425/bpas.2018.125946 (**ISI impact factor 1.361**)
  37. Ionescu, C.M., Copot, D., **Muresan, C.I.** (2019), A multi-scale model of nociception pathways and pain mechanisms, chapter in Baleanu, D., Lopes, A.M. (eds.) „Handbook Of Fractional Calculus With Applications. Volume 7: Applications In Engineering, Life And Social Sciences, Part A”, pp. 55-68, DOI:10.1515/9783110571905-004 (**Book Chapter**)
  38. **C.I. Muresan**, R. De Keyser, I. R. Birs, S. Folea, O. Prodan (2019) An Autotuning Method for a Fractional Order PD Controller for Vibration Suppression, chapter in K. Taş, D. Baleanu, J.A. Tenreiro Machado (eds.) “*Mathematical Methods in Engineering. Nonlinear Systems and Complexity*”, vol. 24, pp. 245-256, DOI: [https://doi.org/10.1007/978-3-319-90972-1\\_15](https://doi.org/10.1007/978-3-319-90972-1_15) (**Book Chapter**)

39. E.H. Dulf, **C.I. Muresan**, C. Ionescu (2017) Fault Tolerant Control of the <sup>13</sup>C Isotope Separation Cascade, chapter in K. Taş, D. Baleanu, J.A. Tenreiro Machado (eds.) "Mathematical Methods in Engineering. Nonlinear Systems and Complexity", vol. 24, pp. 53-65, DOI: [https://doi.org/10.1007/978-3-319-90972-1\\_4](https://doi.org/10.1007/978-3-319-90972-1_4) (**Book Chapter**)
40. **Muresan, C.I.**, Copot, D. (2019), Chapter 4 - Information From Time-Based Signals, chapter in Ionescu, C., *Lung Function Testing in the 21st Century. Methodologies and Tools Bridging Engineering to Clinical Practice*, pp. 109-123, 10.1016/B978-0-12-814612-5.00006-3, ISBN 978-0-12-814612-5, Elsevier (**Book Chapter**)
41. Birs, I., **Muresan, C.I.**, Nascu, I., Ionescu, C. (2019), A Survey of Recent Advances in Fractional Order Control for Time Delay Systems, *IEEE Access*, vol. 7, no. 1, pp. 30951-30965, DOI: 10.1109/ACCESS.2019.2902567 (**ISI impact factor 4.098**)
42. **Muresan, C.I.**, Birs, I.R., Ionescu, C., De Keyser, R. (2019), Tuning of fractional order proportional integral/proportional derivative controllers based on existence conditions, *Proc IMechE Part I: J Systems and Control Engineering*, vol. 223, no. 4, pp. 384-391, DOI: 10.1177/0959651818790809 (**ISI Impact factor 1.166**)
43. De Keyser, R., **Muresan, C.I.**, Ionescu, C. (2019), Universal Direct Tuner for Loop Control in Industry, *IEEE Access*, vol. 7, pp. no. 1, pp. 81308-81320, DOI: 10.1109/ACCESS.2019.2921870 (**ISI impact factor 4.098**)
44. Birs, I., Copot, D., **Muresan, C.I.**, Nascu, I., Ionescu, C. (2019), Identification For Control Of Suspended Objects In Non-Newtonian Fluids, *Fractional Calculus and Applied Analysis*, vol. 22, no.5, pp. 1378-1394 , DOI: 10.1515/fca-2019-0072 (**ISI impact factor 3.514**)
45. Juchem, J., **Muresan, C.I.**, De Keyser, R., Ionescu, C.M. (2019), Robust fractional-order auto-tuning for highly-coupled MIMO systems, *Heliyon*, Vol. 5, No. 7, paper e02154, DOI: 10.1016/j.heliyon.2019.e02154 (**ISI Emerging citations Index**)
46. I. Birs, S. Folea, O. Prodan, E. Dulf, C. Muresan (2020), An experimental tuning approach of fractional order controllers in the frequency domain, *Applied Sciences*, vol. 10(9), pp. 2379 (**ISI impact factor 2.474**)
47. Eva-H. Dulf, Dan C. Vodnar, Alex Danku, **Cristina-I. Muresan**, Ovidiu Crisan (2020), Fractional-Order Models for Biochemical

- Processes, *Fractal and Fractional*, 4(2), 12, doi: 10.3390/fractalfract4020012 (**ISI Emerging citations Index**)
48. C. Ionescu, I. Birs, D. Copot, **C. Muresan**, R. Caponetto (2020), Mathematical modeling with experimental validation of viscoelastic properties in non-Newtonian fluids, *Philosophical Transactions of The Royal Society A*, A 20190284, doi:10.1098/rsta.2019.0284 (**ISI impact factor 3.275**)
49. C.M. Ionescu, E.H. Dulf, M. Ghita, **C.I. Muresan** (2020), Robust Controller Design: Recent Emerging Concepts for Control of Mechatronic Systems, *Journal of the Franklin Institute*, DOI: 10.1016/j.jfranklin.2020.05.046, Vol. 357, No. 12, pp. 7818-7844 (**ISI impact factor 4.036**)
50. I. Birs, I. Nasca, C. Ionescu, C. Muresan (2020), Event-based fractional order PID control, *Journal of Advanced Research*, Volume 25, pp.191-203, DOI: 10.1016/j.jare.2020.06.024 (**ISI impact factor 6.992**)
51. **Muresan, C.I.**; Ionescu, C.M. (2020) Generalization of the FOPDT Model for Identification and Control Purposes, *Processes*, 8, 682, doi: 10.3390/pr8060682 (**ISI impact factor 2.753**)
52. Birs. I., **Muresan, C.I.** (2020), A non-Newtonian impedance measurement experimental framework: modeling and control inside blood-like environments—fractional-order modeling and control of a targeted drug delivery prototype with impedance measurement capabilities, chapter in Copot, D. “Automated Drug Delivery in Anesthesia”, ISSN:978-0-12-815975-0, DOI: 10.1016/B978-0-12-815975-0.00008-4, Elsevier (**Book chapter**)
53. C. Copot, C.M. Ionescu, **C.I. Muresan** (2020), *Image-Based and Fractional-Order Control for Mechatronic Systems. Theory and Applications with MATLAB®*, ISBN 978-3-03-042005-5, 978-3-03-042006-2, DOI: 10.1007/978-3-030-42006-2, Springer (**Book**)
54. **Muresan, Cristina I.**; Birs, Isabela R.; Dulf, Eva H. (2020) Event-Based Implementation of Fractional Order IMC Controllers for Simple FOPDT Processes, *Mathematics*, 8(8), 1378, doi: 10.3390/math8081378 (**ISI impact factor 1.747**)
55. EH Dulf, M Saila, **CI Muresan**, LC Miclea (2020), An Efficient Design and Implementation of a Quadrotor Unmanned Aerial Vehicle Using Quaternion-Based Estimator, *Mathematics*, vol 8,

- No. 10, 1829; DOI: 10.3390/math8101829, (**ISI impact factor 1.747**)
- 56.**M. Ghita, M. Neckebroek, **C. Muresan**, D. Copot (2020), Closed-Loop Control of Anesthesia: Survey on Actual Trends, Challenges and Perspectives," in *IEEE Access*, vol. 8, pp. 206264-206279, 2020, doi: 10.1109/ACCESS.2020.3037725 (**ISI impact factor 3.745**)
- 57.**R. A. C. Diaz, M. Ghita, D. Copot, I. R. Birs, **C. Muresan** and C. Ionescu (2020), Context Aware Control Systems: An Engineering Applications Perspective, *IEEE Access*, vol. 8, pp. 215550-215569, doi: 10.1109/ACCESS.2020.3041357 (**ISI impact factor 3.745**)
- 58.**Ghita, M.; Neckebroek, M.; Juchem, J.; Copot, D.; **Muresan, C.I.**; Ionescu, C.M. (2020), Bioimpedance Sensor and Methodology for Acute Pain Monitoring, *Sensors*, *20*, 6765, Doi: 10.3390/s20236765 (**ISI impact factor 3.275**)
- 59.** **C.I. Muresan**, I. Birs, R. De Keyser (2021), An Alternative Design Approach for Fractional Order Internal Model Controllers for Time Delay Systems, *Journal of Advanced Research*, DOI: 10.1016/j.jare.2021.01.004 (**ISI impact factor 6.992**)
- 60.****C.I. Muresan**, I. Birs, D. Copot, E. Dulf, C. Ionescu (2021), A Novel Fractional Order PI Controller Design based on Reference to Disturbance Ratio, *IEEE Access*, under review
- 61.**Copot, C., **Muresan, C.I.**, Beschi, M., Ionescu, C.M. (2021), A 6DOF Virtual Reality Space Docking Operation with Human Supervision, *Applied Sciences*, under review

### Conference papers

- 62.**A.O. Neaga, Cl. Festila, E.H. Dulf, T. Szelitzky, R. Both, **C.-I. Pop**, M. Gligan (2012), Electrical Power Monitoring and Control in 13C Isotope Separation Column Boiler, *7th IEEE International Symposium on Applied Computational Intelligence and Informatics (SACI)*, ISBN 978-1-4673-1013-0, pp.13-18, DOI: 10.1109/SACI.2012.6249968, 24-26 mai 2012, Timisoara (**BDI**)
- 63.****Pop, C.-I.**, Ionescu, C.M, De Keyser, R., Dulf, E.-H., Valean, H., Neaga, A., Darab, C. (2012), An Alternative EPSAC Based Control Strategy for Multivariable Time Delay Processes, *International IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics AQTR 2012 (THETA 18)*, IEEE Catalog Number:



- CFP12AQT-CDR, ISBN: 978-1-4673-0703-1, pp. 150-155, 24-27 mai 2012, Cluj-Napoca (**ISI PRO**)
- 64. Muresan, C.-I.**, Both, R., Ionescu, C.M., Dulf, E.-H. (2012), Fractional Order Control for the Temperature Loop in a Chemical Reactor, *16th International Conference on System Theory, Control and Computing*, IEEE Catalog Number CFP1236P-CDR, ISBN 978-606-834-848-3, pp. 1-5, 12-14 octombrie 2012, Sinaia (**BDI**)
- 65. Muresan, C.-I.**, Dulf, E.H., Ionescu, C. (2012), Multivariable Fractional Order PI Controller for Time Delay Processes, *International Conference on Engineering and Applied Science*, DOI: 10.2316/P.2012.785-029, 27-29 decembrie 2012, Colombo, Sri Lanka (**BDI**)
- 66. Muresan, C.I.**, Both, R., Dulf, E.H., Neaga, A., Ionescu, C. (2013), HIL Real-Time Simulation of a Digital Fractional Order PI Controller for Time Delay Processes, *IEEE Africon*, ISBN: 978-1-4673-5940-5, ISSN: 2153-0025, DOI: 10.1109/AFRCON.2013.6757603, pp. 1-5, 9-12 September, Mauritius (**ISI PRO**)
- 67. Muresan, C.I.**, Dulf, E.H., Both, R. (2013), Fractional and Integer Order Control. Application to DC motor speed control, *17th International Conference on System Theory, Control and Computing Joint Conference SINTES 17, SACCS 13, SIMSIS 17*, ISBN: 978-1-4799-2227-7, DOI: 10.1109/ICSTCC.2013.6688986, pp. 362 – 367, 11 - 13 October 2013, Sinaia, Romania (**BDI**)
- 68. Muresan, C.I.**, Dulf, E.H., Both, R., Palfi, A., Caprioru, M. (2013), Microcontroller Implementation of a Multivariable Fractional Order PI Controller, *The 9th International Conference on Control Systems and Computer Science (CSCS19-2013)*, IEEE Catalog Number E4980, ISBN: 978-0-7685-4980-4, DOI: 10.1109/CSCS.2013.9, pp. 44-51, 29-31 May, Bucharest, Romania (**ISI PRO**)
- 69. Both, R., Muresan, C.I.**, Dulf, E.H., Dulf, F.V. (2013), Microcontroller Implementation of Digital Fractional Order Controllers for Time Delay Processes, *The 21st Mediterranean Conference on Control and Automation*, ISBN: 978-1-4799-0995-7, DOI: 10.1109/MED.2013.6608911, pp. 1445-1450, 25-28 June, Plataniias-Chania, Crete, Greece (**ISI PRO**)
- 70. Muresan, C.I.**, Folea, S., Mois, G. (2013), Optimal Implementation of Advanced Control Methods on FPGA Targets, *The 10th IEEE RIVF International Conference on Computing and Communication*

*Technologies*, ISBN: 978-1-4799-1350-3, pp. 209-214, 10-13 November, Hanoi, Vietnam (**ISI PRO**)

71. **Muresan, C.I.**, Mois, G., Folea, S., Ionescu, C. (2013), Alternative Implementations of a Fractional Order Control Algorithm on FPGAs, International Conference on Reconfigurable Computing and FPGAs (ReConFig), ISBN: 978-1-4799-2078-5, DOI: 10.1109/ReConFig.2013.6732269, pp. 1-6, 9-11 December, Cancun, Mexic (**ISI PRO**)
72. **Muresan, C.I.**, Dulf, E.H., Both, R., Ionescu, C.M., Nascu, I. (2014), Improving performance for a <sup>13</sup>C isotope separation plant using multivariable fractional order controllers, International Conference on Fractional Differentiation and its Applications, pp. 1-6, DOI: 10.1109/ICFDA.2014.6967385, 23-25 June, Catania, Italy (**BDI**)
73. Dulf, E.H., **Muresan, C.I.**, Both, R., Dulf, F.V. (2014), Fractional order controller design for a large class of process models, International Conference on Fractional Differentiation and its Applications, pp. 1-6, DOI: 10.1109/ICFDA.2014.6967448, 23-25 June, Catania, Italy (**BDI**)
74. **Muresan, C.I.**, Prodan, O. (2014), Vibration Suppression in Smart Structures using Fractional Order PD controllers, IEEE International Conference on Automation, Quality and Testing, Robotics AQTR, ISBN: 978-1-4799-3731-8, pp. 1-5, DOI: 10.1109/AQTR.2014.6857907, 22-24 May, Cluj-Napoca, Romania (**ISI PRO**)
75. Dulf, E.H., Both, R., **Muresan, C.I.** (2014), Active Disturbance Rejection Controller for a Separation Column, IEEE International Conference on Automation, Quality and Testing, Robotics AQTR, ISBN: 978-1-4799-3731-8, pp. 1-6, DOI: 10.1109/AQTR.2014.6857906, 22-24 May, Cluj-Napoca, Romania (**ISI PRO**)
76. Copot, C., **Muresan, C.I.**, Ionescu, C.M., De Keyser, R. (2014), Fractional Order Control of a DC Motor with Load Changes, 14th International Conference on Optimization of Electrical and Electronic Equipment OPTIM, pp. 956-961, DOI: 10.1109/OPTIM.2014.6850964, May 22-24, Bran, Romania (**ISI PRO**)
77. Folea, S., Marton, B., **Muresan, C.I.** (2014), Stabilizing control strategies: A comparison between the fractional order controller and the IMC, The 18th International Conference System Theory,

Control and Computing (ICSTCC), pp. 59 – 63, DOI: 10.1109/ICSTCC.2014.6982391, October 17-19, Sinaia, Romania (BDI)

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