

List of papers – Andrei Halanay

Papers in International journals

1. R. Abdullah, F. Avram, A. Halanay, R. Radulescu (2025), A Mathematical Model for Allergic Reactions Induced by the Therapy of HIV, *Mathematical Methods in the Applied Sciences*, 2025, 1–23 , <https://doi.org/10.1002/mma.1114>.
2. A.M. Bordei, A. Halanay (2025), Stability Analysis of Fixed-Wing UAV Swarms Under Time-Delayed Tracking Control Law. *Axioms* 2025, 14, 519. <https://doi.org/10.3390/axioms14070519>
3. L. Fakih ,A. Halanay, F. Avram (2025), On a Model of Rumors Spreading Through Social Media, *Entropy* 2025, 27, 903. <https://doi.org/10.3390/e27090903>
4. A. Halanay, C. Murea, D. Tiba, (2024), Some properties of the period for certain ordinary differential systems and applications to topology optimization of variational inequalities, Nonsmooth problems with applications in mechanics, Banach Center Publications, vol. 127, p. 129-146, Institute of Mathematics, Polish Academy of Sciences, Warszawa, Poland.
5. I. Badralexi, A. M. Bordei, A. Halanay, I.R. Radulescu (2024), Dynamics of Chronic Myeloid Leukemia under Imatinib Treatment: A Study of Resistance Development. *Mathematics*, 12, 3937.
6. R. Abdullah, I. Badralexi, L. Fakih, A. Halanay (2024), Dynamics in Chronic Myeloid Leukemia Therapy: Unraveling Allergic Reactions and T-Cell Subset Modulation by Imatinib., *Axioms*, 13, 464. <https://doi.org/10.3390/axioms13070464>
7. R. Abdullah, I. Badralexi, A. Halanay (2024), Stability Analysis in a Mathematical Model for Allergic Reactions. *Axioms*, 13, 102. <https://doi.org/10.3390/axioms13020102>
8. R. Abdullah, I. Badralexi, A. Halanay (2023), Stability Analysis in a New Model for Desensitization of Allergic Reactions Induced by Chemotherapy of Chronic Lymphocytic Leukemia, *Mathematics*, 11, 3225, <https://doi.org/10.3390/math11143225>.
9. F. Avram, R. Adenane, L. Basnarkov, G. Bianchin, D. Goreac, A. Halanay (2023), An Age of Infection Kernel, an R Formula and Further Results for Arino–Brauer A, B Matrix Epidemic Models with Varying Populations, Waning Immunity and Disease and Vaccination Fatalities, *Mathematics*, 11, 1307. <https://doi.org/10.3390/math11061307>
10. R. Adenane, E. Avila-Vales, F. Avram, A. Halanay, A. Perez (2023), On a three dimensional and two four-dimensionsl oncolytic virotherapy models, *Bol. Soc. Mat. Mexicana*, 29-63.
11. Daniela Enciu, Andrei Halanay, Adrian Toader & Ioan Ursu (2022), Lyapunov-Malkin type approach of equilibrium stability in a critical case applied to a switched model of a servomechanism with state delay, *International Journal of Control*, DOI:10.1080/00207179.2022.2156929
12. F. Avram, R. Adenane , G. Bianchin and A. Halanay (2022), Stability Analysis of an Eight Parameter SIR-Type Model Including Loss of Immunity and Disease and Vaccination Fatalities, *Mathematics* 10, 402, <https://doi.org/10.3390/math10030402>

13. F. Avram, R. Adenane and A. Halanay (2022), New Results and Open Questions for SIR-PH Epidemic Models with Linear Birth Rate, Loss of Immunity, Vaccination and Disease and Vaccination Fatalities, *Symmetry* 14, 995. <https://doi.org/10.3390/sym14050995>
14. K. Amin, I. Badralex, A. Halanay, R. Mghames (2021), A stability theorem for equilibria of delay differential equations in a critical case with application to a model of cell evolution, *Mathematical Modeling of Natural Phenomena*, vol. 16, <https://doi.org/10.1051/mmnp/2021021> (Franta) (revista **ISI**, impact factor 1, 642, SRI 0,775) (ISSN 0973-5348).
15. Daniela Enciu, Andrei Halanay (2021), Stability for a delayed switched nonlinear system of differential equations in a critical case, *International Journal of Control* 95:6,1543-1550, DOI: 10.1080/00207179.2020.1862423 (revista **ISI**, Impact factor 3, 47, SRI 1,236 -2019 (1,299-2017), ISSN 0027179).
16. A. Halanay, C.A. Safta (2020), A critical case for stability of equilibria of delay differential equations and the study of a model for an electrohydraulic servomechanism, *Systems & Control Letters*, 142 (revista **ISI**, Impact factor 2, 762, SRI 2, 276) (ISSN 0167-6911).
17. R. Radulescu, D. Candea, A. Halanay (2016), Optimal control analysis of a leukemia model under imatinib treatment, *Mathematics and Computers in Simulation*, 121,1-11 (Elsevier) (revista **ISI**, Impact Factor1,218, SRI 0,953) (ISSN 0378-4754).
18. D. Candea, A. Halanay, R. Radulescu (2016), Stability analysis of some equilibria in a time-delay model for cell dynamics in leukemia including the action of the immune system, *MESA*, vol. 7, no2, 315-339 (SUA).
19. Andrei Halanay, Cornel Marius Murea and Dan Tiba (2016), Existence of a Steady Flow of Stokes Fluid Past a Linear Elastic Structure Using Fictitious Domain, *J. Math. Fluid Mech.*, 18 , 397-413, DOI 10.1007/s00021-015-0247-0 (revista **ISI**, Impact factor 1, 106, SRI 1, 971) (ISSN 1422-6928)
20. A. Halanay, L. Pandolfi (2015), Approximate controllability and lack of controllability to zero of the heat equation with memory, *J. Math. Anal. Appl.* 425 (2015) 194–211.(revista **ISI**, Impact factor 1, 064; 5-Years impact factor 1, 151, SRI 1,104) (ISSN 0022-247X).
21. A. Halanay, D. Candea, R. Radulescu (2015), Stability analysis of equilibria in a delay differential equations model of CML including asymmetric division and treatment, *Mathematics and Computers in Simulation* ,110 (2015), 69-82, DOI:10.1016/j.matcom.2014.04.008 (Elsevier) (revista **ISI**, Impact Factor1,218, SRI 0,953) (ISSN 0378-4754).
22. R. Radulescu, D. Candea, A. Halanay (2014), A study on stability and medical implications for a complex delay model for CML with cell competition and treatment, *Journal of Theoretical Biology*, vol 363, 30-40 (revista **ISI**, Impact factor 2, 303; 5-Years impact factor 2, 394, SRI 1,348) (ISSN 0022-5193).
23. A. Halanay, L. Pandolfi (2014), Lack of controllability of thermal systems with memory, *Evolution Equations and Control Theory*, vol. 3, no. 3, 485-497 (revista **ISI** , Impact factor 1,049, SRI 0,834) (AIMS Journal, SUA) (ISSN 2163-2480 (e)).
24. A. Halanay, D. Candea, R. Radulescu (2014), Existence and Stability of Limit Cycles in a Two-delays Model of Hematopoiesis Including Asymmetric Division, *Mathematical Modeling of Natural Phenomena*, vol.9, no.1, 58-78. (Franta) (revista **ISI**, impact factor 0,952, SRI 0.854) (ISSN 0973-5348).
25. S. Balea, A. Halanay, D. Jordan, M. Neamtu, C. Safta (2014), Stability analysis of a feedback model for the action of the immune system in leukemia, *Mathematical Modeling*

- of Natural Phenomena, vol.9, no.1, 108-132. (Franta) (revista **ISI**, impact factor 0,952, SRI 0,854) (ISSN 0973-5348).
26. Ursu, A. Toader, A. Halanay, S. Balea (2013), New stabilization and tracking control laws for electrohydraulic servomechanisms, European J. of Control 19, 65-80. (revista **ISI**, impact factor 1,944; SRI 1, 308) (ISSN 0947-3580)
 27. A.Halanay, C. Murea, C. A. Safta, (2013), Numerical Experiments for Stabilization of the Heat Equation by Dirichlet Boundary Control, Numerical Functional Analysis and Optimization, vol. 34, no.12, 1317-1327, ISSN: 0163-0563. (revista **ISI**, impact factor 0,852, SRI 0,691).
 28. S. Balea, A. Halanay, I. Ursu (2013), New results on the problem of the stabilization of equilibria for models of electrohydraulic servoactuators, Discrete and Continuous Dynamical Systems, series S, vol. 6, no. 6, 1551-1567, ISSN 1531-3492. (revista **ISI**, Impact factor 0,781, SRI 0,626) (SUA).
 29. A. Halanay, L. Pandolfi (2012), Lack of controllability of the heat equation with memory, Systems & Control Letters, 61, 999-1002, (revista **ISI**, impact factor 2, 550, SRI 2,276)
 30. A. Halanay (2012), Periodic solutions in a mathematical model for the treatment of chronic myelogenous leukemia , Mathematical Modeling of Natural Phenomena, vol.7, no.1, 235-244. (Franta) (revista **ISI**, impact factor 0,952, SRI 0,854) (ISSN 0973-5348).
 31. S. Balea, A. Halanay, I. Ursu (2010), Coordinates transformation and stabilization for switching models of actuators in servoelastic framework, Applied Mathematical Sciences, vol. 4, no 73-76, 3625-3643.
 32. A. Halanay, A. Ionita, C. A. Safta (2010), Hopf bifurcations through delay in pilot reaction in a longitudinal flight, Nonlinear Dynamics, 60(3), pp. 413-423, DOI : 10.1007/s11071-009-9605-x.. (SUA) (revista **ISI**, Impact factor 3, 464, SRI 2,285).
 33. A. Halanay, D. Tiba (2009), Shape optimization for stationary Navier-Stokes equations, Control and Cybernetics, vol. 38, no. 4, 1359-1375. (Polonia)(revista **ISI**, Impact factor 0,3)
 34. A. Halanay, I. Ursu (2009), Stability of some switched nonlinear systems with applications to control synthesis for electrohydraulic servomechanisms, IMA Journal of Applied Mathematics, vol. 74, no 3, 361-373; (Anglia) (revista **ISI**, Impact factor 0,945, SRI 0,871).
 35. A. Halanay, C. A. Safta, I. Ursu, F. Ursu (2009), Stability analysis for a nonlinear model of a hydraulic servomechanism in a servoelastic framework, Nonlinear Analysis: Real World Applications, 10, 1197-1209 (SUA) (revista **ISI**, Impact factor 2,519, SRI 1,491).
 36. M. Adimy, F. Crauste, A. Halanay, M. Neamtu, D. Opris (2006), Stability of Limit Cycles in a Pluripotent Stem Cell Dynamics Model, Chaos, Solitons and Fractals, 27(4), 1091-1107. (Elsevier) (revista **ISI**, Impact factor 1, 448, SRI 1,329).
 37. A.Halanay, C. A. Safta (2005), Stabilization of some nonlinear controlled electrohydraulic servosystems, Applied Mathematics Letters, vol.18, no.8, pp.911-915, (SUA) (revista **ISI**, Impact factor 2,233, SRI 1,305).
 38. A.Halanay, C.A.Safta, I.Ursu, F.Ursu (2004), Stability of equilibria in a four- dimensional nonlinear model of a hydraulic servomechanism, Journal of Engineering Mathematics, vol. 49,no.4, p.391-406 (Olanda) (revista **ISI**, Impact factor 1,076, SRI 0,955)
 39. A.Halanay (2003), On the stability of some equilibrium points in a plankton population model,Dynamical Systems.An International Journal,18,no.3,p.227-231.(Marea Britanie) (revista **ISI**, Impact factor 0,597, SRI 0,657)

40. A.Halanay, C. A. Safta (2000), Existence and stability of normal motions in loaded hydraulic copying systems with periodic and composed inputs, Z. Angew. Math. Mech., 80, no. 2, 93-101. (Germania) (revista **ISI**, Impact factor 1, 332, SRI 0,959)
41. A.Halanay, C. A .Safta (1999), Stability and accuracy of steady-state motions in loaded copying systems:an analytical approach, Computer Assisted Mech.and Engineering Sci., 6, p.107-113. (Polonia)
42. A. Halanay, C. A. Safta (1998), Periodic motions for loaded two control edges hydraulic copying systems, Computer Methods in Applied Mechanics and Engineering, 158, p. 367-374. (SUA) (revista **ISI**, Impact factor 3,949, SRI 4,570)
43. A. Halanay (1991), A model for a general linear bounded operator between two Hilbert spaces, Acta.Sci Math. (Szeged), 55, no.1-2, p.119-128. (Ungaria).
44. A. Halanay (1990), On the existence of invariant subspaces for some contractions with spectrum dominating an arc on the unit circle, J. Operator Theory, 23, p. 51-66. (Romania) (revista **ISI**, Impact factor 0, 524, SRI 1,046)

Papers in National journals

1. K. Amin, A. Halanay, R. Mghames, R. Abdullah (2025), On the stability of an equilibrium point in a model of cell evolution in chikungunya, Sci. Bull. UPB, Ser. A, Vol. 87, Iss. 1,pp. 41-48, 2025,
2. Ana-Maria Bordei, Andrei Halanay (2023), Stability for small delays, Metzler matrices and an application to a flight controller design, U.P.B. Sci. Bull., Series A, Vol. 85, Iss. 2, p. 59-68.
3. R. Abdullah, A. Halanay, K. Amin, R. Mghames (2023), Partial stability in a model for allergic reactions induced by chemotherapy of acute lymphoblastic leukemia, Ann. Acad. Rom. Sci. Ser. Math. Appl., Vol. 15, no. 1-2, p. 443-472.
4. Karim Amin, Andrei Halanay, Ragheb Mghames, Rawan Abdullah (2023), A delay differential equation model for cell evolution in Chikungunya,U.P.B. Sci. Bull., Series A, Vol. 85, Iss. 1, p. 95-106.
5. Karim Amin, Andrei Halanay, Ileana Rodica Radulescu , Mihaela Andreea Ungureanu (2021), A model for cell evolution in malaria under treatment considering the action of the immune system, U.P.B. Sci. Bull., Series A, Vol. 83, Iss. 3, p.171-188.
6. Irina Badralexi, Silvia Balea, Andrei Halanay, Dumitru Jardan, Rodica Radulescu, (2020), A complex model of cell evolution in leukemia including competition and the action of the immune system, Ann. Acad. Rom. Sci. Ser. Math. Appl., Vol. 12, No. 1-2/2020. (BDI, ISSN 2066-5997).
7. Irina Badralexi, Andrei Halanay, Ragheb Mghames (2020), A delay differential equations model for maintenance therapy in Acute Lymphoblastic Leukemia,. Sci. Bull.UPB, Series A, Vol. 82, no. 3 (revista **ISI**, IF 0,629)
8. I. Badralexi, A.M. Bordei, A. Halanay (2018), Rank-one perturbations and stability of some equilibrium points in a complex model of cells evolution in leukemia, Sci. Bull. UPB, series A, vol.80, iss.3, pp.3-14 (revista **ISI**, IF 0,629)
9. D. Enciu, A. Halanay, I. Ursu (2018), Delay differential equations models for mechano and electrohydraulic servomechanisms, Sci. Bull. UPB, series A, vol.80, iss.3, p 27-36. (revista **ISI**, IF 2019 0,629).

10. I. Badrălexi, D. Cădea, A. Halanay, I.R. Radulescu (2018), A model for cell evolution in CML under treatment including pharmacodynamics, Bull. Math. Soc. Sci. Math. Roumanie, Tome 61 (109), No. 4, 383-398, FI 0,412, WOS 000454162900003
11. A. Halanay, C.M. Murea, D. Tiba (2018), Extension theorems related to a fluid-structure interaction problem, Bull. Math. Soc. Sci. Math. Roumanie, Tome 61 (109), No. 4, 2018, 417–437, FI 0,412, WOS: 000454162900006
12. A. M. Bordei, A. Halanay (2017) Stability analysis for an UAV model in a longitudinal flight, INCAS Bull, vol.9, no.4, pp.21-29.
13. I.R. Rădulescu , D. Cădea, A. Halanay (2016) , *Stability analysis of some equilibria in a time-delay model for competition of leukemia and healthy cells in CML*, Bull. Math. Soc. Sci. Math. Roumanie, Vol. 4, ISSN: 1220-3874. (revista **ISI**, IF 0,521)
14. I. Badrălexi, A. Halanay, I. R. Radulescu (2015), A Lyapunov-Krasovskii Functional for a Complex System of Delay-Differential Equations, U.P.B. Sci. Bull., Series A, Vol. 77, Iss. 2, ISSN: 1223-7027. (revista **ISI**).
15. D. Cădea, A. Halanay, R. Radulescu (2013), Stability analysis in a model for stem-like hematopoietic cells dynamics in leukemia under treatment, Mathematics and its Applications, vol.5, no. 1-2, pp. 148-176.
16. A. Halanay, C. Murea si D. Tiba (2013), Existence and approximation for a steady fluid-structure interaction using fictitious domain approach with penalization, Mathematics and its Applications, vol.5, no. 1-2, pp. 120-147.
17. S. Balea, A. Halanay, I. Ursu (2010), Coordinate transformations and stabilization of some switched control systems with application to hydrostatic electrohydraulic servoactuator, Control Engin. Appl. Informatics, vol 12, no. 3, pp 67-72. (revista **ISI**, IF 0, 537).
18. A. Halanay, A. Ionita (2010), Existence and stability of periodic motions in some roll-coupling dynamics of an aircraft, Proc. Romanian Academy, Ser. A, vol 11. no.2, pp. 103-107 (Lucrare **ISI**, IF 1, 658).
19. A. Halanay (2010), Stability analysis for a mathematical model of chemotherapy action in hematological diseases, Bull. Math. Soc. Sci. Math. Roumanie, 53 (101), no. 1, pp. 3-10 (Lucrare **ISI**, IF 0,521).
20. A. Halanay (2010), Treatment induced periodic solutions in some mathematical models of tumoral cell dynamics, Mathematical Reports, 12(62), no. 4, pp.329-339 (Lucrare **ISI**, IF 0,12)
21. S. Balea, A. Halanay, I. Ursu (2009), Stabilization through coordinates transformation for switched systems associated to electrohydraulic servomechanisms, Mathematical Reports, 11(61), no. 4, p. 279-292 (Lucrare **ISI**, 0,12).
22. I.Ursu, F. Ursu, A.Halanay, C.A.Safta (2008), Equilibrium Stability of a Servo Actuating Flight Controls in a Servoelastic Framework, Acta. Univ. Apulensis, 15, pp. 179-189.
23. A. Halanay, I. Ursu (2007), Stability of equilibria in a model for electrohydraulic servomechanisms, Mathematical Reports, vol 9(59), nr.1, pp. 47-54.
24. A. Halanay (2007), Some remarks on the stability of the “dead-ocean” steady- state in a plankton population model, Bull. Math. Soc. Sci. Math. Roumanie, Tome 50(98), no.2 (Lucrare **ISI**, IF 0, 521).
25. A. Halanay (2004), Controlled factorization for some commuting pairs of contractions with thin spectrum, Revue Roum. de Math. Pures et Appl. 49, no. 4, 323-354.

26. A. Halanay (2001), Weak*-embedding l^1 into $H^\infty(D)$: an example, Bull.Math.Soc.Sci.Math.Roumanie 44(92), no.2, p.199-207.
27. A. Halanay (1999), Factorisation for contractions with essential resolvent rapidly growing near an arc on the unit circle, Math.Reports 1, no.1, p.49-81.
28. A. Halanay, C.A.Safta(1999), Behaviour of unloaded copying systems near the stability boundary, Sci. Bull.UPB Ser.A, 61, no.1-2, p.65-81.
29. A. Halanay (1998), On perturbation of boundedly complete basic sequences in Banach spaces, Sci. Bull. UPB Ser.A, 60, no. 3-4, p.129-135.
30. A. Halanay, C. A. Safta, N.Vasiliu (1998), Periodic motions in hydraulic copying systems, Bull. Șt. Univ. Pitești, Ser. Mat-Fiz.2, p. 115-122.
31. A. Halanay (1997), Sequences of non-weakly compact sets in $A(D)^*$ and Schauder decompositions of l^1 , Stud. Cerc. Mat .49, no.5-6, p.331-338.
32. A. Halanay (1996), Subspaces of H^∞ and the study of contractions with spectral radius one, Revue Roumaine de Math. Pures et Appl. 41, no.1-2, p.51-82.
33. A.Halanay (1989), A J -isometric dilation of a continuous semigroup with positive generator, Revue Roumaine de Math.Pures et Appl.34,no.1,p.23-27.

Chapters in books

1. C. Murea, A.Halanay (2017), Uniform Estimation of a Constant Issued from a Fluid-Structure Interaction Problem, System Modeling and Optimization, Lorena Bociu • Jean-Antoine Désidéri, Abderrahmane Habbal (Eds.), IFIP Advances in Information and Communication Technology, Vol. 494, p. 292-302 , ISBN 978-3-319-55794-6, Springer, Berlin.
2. I.R. Rădulescu, D. Căndeia, A. Halanay (2017), A Complex Mathematical Model with Competition in Leukemia with Immune Response - An Optimal Control Approach, System Modeling and Optimization, Lorena Bociu • Jean-Antoine Désidéri, Abderrahmane Habbal (Eds.), IFIP Advances in Information and Communication Technology, Vol. 494, p. 430-442 , ISBN 978-3-319-55794-6, Springer, Berlin.
3. C. Murea, A.Halanay (2013), Embedded domain technique for a fluid-structure interaction problem, System Modeling and Optimization, D. Homberg, F. Troltsch eds., IFIP Advances in Information and Communication Technology, vol 391, p. 358-367, ISBN 978-3-642-36061-9, Springer, Berlin.
4. A.Halanay, C. Murea (2013), Fixed domain algorithms in shape optimization for stationary Navier-Stokes equations, System Modeling and Optimization, D. Homberg, F. Troltsch eds. IFIP Advances in Information and Communication Technology, vol 391, p. 378-386, ISBN 978-3-642-36061-9, Springer, Berlin.
5. A. Halanay, I. Ursu (2010), Stability analysis of equilibria in a switching nonlinear model of a hydrostatic electrohydraulic actuator, in *Mathematical Analysis and Applications in Engineering Aerospace and Sciences*, S. Sivasundaram (ed). Cambridge Scientific Publishers, ISBN 978-1-904868-798
6. S. Balea, A. Halanay, F. Ursu, I. Ursu (2009), Geometric Methods in Control Synthesis for Electrohydraulic Servoactuators in Servoelastic Framework, *Seventh International*

- Conference on Mathematical Problems in Engineering and Aerospace Sciences*, S.Sivasundaram (ed), pp. 51-57, Cambridge Scientific Publishers.
7. A.Halanay, I. Ursu (2009), Stabilization in Switching Models for Electrohydraulic Servoactuators in a Servoelastic Framework, *Seventh International Conference on Mathematical Problems in Engineering and Aerospace Sciences*, S.Sivasundaram (ed), pp. 73-80, Cambridge Scientific Publishers.
 8. A.Halanay, I. Ursu, C. A. Safta, F. Ursu (2009), Control Synthesis for Electrohydraulic Servoactuators in a Servoelastic Framework, *Seventh International Conference on Mathematical Problems in Engineering and Aerospace Sciences*, S.Sivasundaram (ed), pp. 716-723, Cambridge Scientific Publishers.
 9. A. Halanay, C. A. Safta, F. Ursu, I. Ursu (2007), Stability analysis and tracking control synthesis of a hydraulic servo in a servoelastic framework: backstepping design, *Proceedings of Sixth International Conference on Mathematical Problems in Engineering and Aerospace Sciences*, S.Sivasundaram (ed), pp. 839-846, Cambridge Scientific Publishers.
 10. A. Halanay, F. Popescu, C. A. Safta, F. Ursu, I. Ursu (2005), Stability analysis and nonlinear control synthesis for hydraulic servos actuating primary flight controls, in *ICNPAA 2004*, S. Sivasundaram editor, pp.243-251, Cambridge Scientific Publishers.
 11. A.Halanay (1987), Extension of the (BCP)-technique, in *Operators in Indefinite Metric Spaces, Scattering Theory and Other Topics* (H. Helson, B. Sz.-Nagy, F. H. Vasilescu, D. Voiculescu, editori), Birkhäuser, pp.195-201, ISBN 3-7643-1843-0.

Proceedings of international conferences

1. A.-M. Bordei, A. Halanay (2018), *Stability of limit cycles in a longitudinal flight of an UAV*, AIP Conference Proceedings **2046**, 020011 (2018); **(ISI Proceedings)**
2. I. Badralexu, A. Halanay (2017), Stability and oscillations in a CML model, Mathematical Problems in Engineering, Aerospace and Science, ICNPAA 2016, AIP Conference Proceedings, **1798**, 020011 (2017); doi: 10.1063/1.4972603 **(ISI Proceedings)**
3. A. Halanay, C. A. Safta , C. Dragoi , V. Piraianu (2017), Stability analysis for a delay differential equations model of a hydraulic turbine speed governor model, Mathematical Problems in Engineering, Aerospace and Science, ICNPAA 2016, AIP Conference Proceedings, **1798**, 020134 (2017), doi: 10.1063/1.4972726 **(ISI Proceedings)**
4. D. Candea, A. Halanay, R. Radulescu, R. Talmaci (2017), Parameter estimation and sensitivity analysis for a mathematical model with time delays of leukemia, Mathematical Problems in Engineering, Aerospace and Science, ICNPAA 2016 AIP Conference Proceedings, **1798**, 020034 (2017); doi: 10.1063/1.4972626, **(ISI Proceedings)**
5. A. Halanay, D. Candea, R. Radulescu (2014), A model with competition between the cell lines in leukemia under treatment, ICNPAA -2014, ed. S. Sivasundaram, American Institute of Physics Proceedings **1637**, 1325-1334, doi: 10.1063/1.4907296, ISBN 978-0-7534-1276-7, **(ISI Proceedings)**.

6. C. A. Safta, S. Balea, A. Halanay, M. Neamtu (2014), Parameter analysis for a mathematical model of the immune system in leukemia, ICNPAA -2014, ed. S. Sivasundaram, American Institute of Physics Proceedings 1637, 1307-1315, doi: 10.1063/1.4907296, ISBN 978-0-7534-1276-7 (**ISI Proceedings**).
7. S. Balea, A. Halanay, M. Neamtu (2014), A feedback model for leukemia including cell competition and the action of the immune system, ICNPAA -2014, ed. S. Sivasundaram, American Institute of Physics Proceedings 1637, 1316-1324, doi: 10.1063/1.4907296, ISBN 978-0-7534-1276-7 (**ISI Proceedings**).
8. R. Radulescu, D. Candea, A. Halanay (2012), Stability and bifurcation in a model for the dynamics of stem-like cells in leukemia under treatment, ICNPAA - 2012, ed. S. Sivasundaram, American Institute of Physics Proceedings, 1493, p. 758-763, ISBN 978-0-7354-1105-0 (**ISI Proceedings**).
9. S. Balea, A. Halanay, D. Jordan (2012), A delay differential equations mathematical model for the immune response in leukemia, ICNPAA-2012, ed. S. Sivasundaram, American Institute of Physics Proceedings 1493, p. 67-71, ISBN 978-0-7354-1105-0 (**ISI Proceedings**).
10. A. Halanay (2012), Periodicity in cell dynamics in some mathematical models for the treatment of leukemia, ICNPAA - 2012, ed. S. Sivasundaram, American Institute of Physics Proceedings 1493, p. 446-450, ISBN 978-0-7354-1105-0 (**ISI- Proceedings**).
11. C. A. Safta, A. Halanay, A. Ionita (2012) Analysis of the dynamics of a delay system modeling a longitudinal flight, ICNPAA - 2012, ed. S. Sivasundaram, American Institute of Physics Proceedings 1493, p. 854-858, ISBN 978-0-7354-1105-0 (**ISI- Proceedings**).
12. M. Stoia-Djeska, C. A. Safta, A. Halanay, C. Petrescu (2012), Sensitivity Analysis of Eigenvalues for an Electro-Hydraulic Servomechanism, ICNPAA - 2012, ed. S. Sivasundaram, American Institute of Physics Proceedings 1493, p. 977-982, ISBN 978-0-7354-1105-0 (**ISI- Proceedings**).
13. A. Halanay (2009), Periodic Solutions in Mathematical Models for Hematological Diseases Under Treatment, Proceedings of the 8th IFAC Workshop on Time-Delay Systems, Sept. 1-3, 2009, Sinaia, Romania
14. A. Halanay, F. Ursu, I. Ursu, S. Balea (2007), Geometric control in a regulator problem for electrohydraulic servos, IEEE Proceedings of the 15-th Mediteranean Conference on Control and Automation, Atena, 27-29 iunie (**Lucrare ISI**).
15. A. Halanay, C. A. Safta (2000), Analysis of electrohydraulic follow-up systems: an analytical approach, Fifth International Conference on Hydraulic Machinery and Hydrodynamics, Timisoara, p. 97-102.