LISTA DE LUCRĂRI

POPA, I. Ioan-Lucian Dr. Din 12.09.2012,.domeniul de doctorat: Matematica

A) O listă cu maximum 10 lucrări considerate de candidat a fi cele mai relevante pentru realizările profesionale proprii, care sunt incluse în format electronic în dosar şi care se pot regăsi şi în celelalte categorii de lucrări prevăzute de prezentul articol

1. I.-L. Popa, T. Ceausu, M. Megan, On exponential stability for linear discrete-time systems in Banach spaces, Comp. Math. Appl., 63(2012), 1497-1503 **IF 3.218**
2. I.-L.. Popa, T. Ceausu, M. Megan, Nonuniform power instability and Lyapunov sequences, Applied Mathematics and Computation 247(2014), 969-975 **IF: 4.397**
3. V. Dragan, S. Aberkane, I.-L. Popa, Optimal H_2 Filtering for Periodic Linear Stochastic Systems with Multiplicative White Noise Perturbations and Sampled Measurements, Journal of The Franklin Institute, Volume 352, Issue 12, December 2015, Pages 5985–6010 **IF: 4.246**
4. I.-L. Popa, T. Ceausu, M. Megan, Characterizations of the (h,k,\mu,\nu)-Trichotomy for Linear Time-Varying Systems, Mathematical Methods in the Applied Sciences Volume 40, Issue 17 30, 2017, 6172–6177 **IF: 3.007**
5. V. Dragan, S. Aberkane, I.-L. Popa, Optimal filtering for a class of Itô stochastic systems: The dichotomic case, Automatica, Volume 90, April 2018, Pages 47-53 **IF: 6.15**
6. V. Dragan, I. Ivanov, I.-L. Popa, On the Closed Loop Nash Equilibrium Strategy for a Class of Sampled Data Stochastic Linear Quadratic Differential Games, Chaos, Solitons and Fractals, 2020 **IF: 9.922**
7. I.-L. Popa, Lyapunov Functions for Random Semi-Dynamical Systems in Terms of Tempered Exponential Splitting, Mathematical Methods in the Applied Sciences 45(15), 1923-11932, 2021 **IF: 3.007**
8. V. Dragan, E. F. Costa, I.-L. Popa, S. Aberkane, Exact Detectability of Discrete-Time and Continuous-Time Linear Stochastic Systems with Periodic Coefficients. A unified approach, IEEE Transactions on Automatic Control 67(11), 5730-5745, 2022, **IF: 6.549**
9. V. Dragan, I. Ivanov, I.-L. Popa, Stochastic Linear Quadratic Differential Games in a State Feedback Setting with Sampled Measurements, Systems & Control Letters 134 (2019), 104563 **IF: 2.742**
10. V Drăgan, IL Popa, IG Ivanov, A linear quadratic tracking problem for impulsive controlled stochastic systems: The infinite horizon time case, Mathematical Methods in the Applied Sciences, 2022 https://doi.org/10.1002/mma.8911 **IF: 3.007**

B) Teza sau tezele de doctorat;

Titlu: „Comportari asimptotice ale sistemelor liniare-discrete in spatii Banach”
Coordonator Stiintific: Prof. Univ. Dr. Mihail Megan

C) Brevete de invenţie şi alte titluri de proprietate industrială;

D) Cărţi publicate şi capitole în cărţi;

1. D. Breaz, I.-L. Popa, M. I. Stan, Arithmetics and Number Theory (Aritmetica si teoria

numerelor), Aeternitas 2016, 185 pag.
2. I.-L.Popa, Linear discrete-time systems in infinite dimensional spaces, Aeternitas, 2015, 151 pag.
3. M.-G. Babutia, A. C. Muntean, I.-L. Popa, I. Stana, Elements of Aritmetics. Theory and Problems (Elemente de aritmetica. Teorie si probleme), Aeternitas, 2015, 328 pag.
4. T. Ceausu, M. Megan, I.-L. Popa, Mathematics problems with solutions at tenure competion 1993-2013 (Probleme de matematica cu enunturi si solutii date la concursurile de titularizare 1993-2013), MatrixRom 2014, 500 pag.
5. D. Breaz, I.-L. Popa, Methodology of mathematical activities (Metodica activitatilor matematice), ID Didactic Series UAB, 2016
6. D. Breaz, I.-L. Popa, Methods to solve arithmetic problems (Metode de rezolvare a problemelor de aritmetica), ID Didactic Series UAB, 2016
7. I.-L. Popa, Special Mathematics (Matematici Speciale), Didactic Series UAB, 2017
8. I.-L. Popa, Superior Mathematics (Matematici Superioare), Didactic Series UAB, 2020
9. D. Breaz, C. Muntean, I.-L. Popa, I. Stana, Methods of solving arithmetic problems (Metode de rezolvare a problemelor de aritmetica), 2021, MatrixRom, 300 pag.
10. I.-L. Popa, Modeling and decision simulations (Modelare si simulari decizionale), Didactic Series UAB, 2022
11. I.-L. Popa, Modeling and simulation of environmental pollution (Modelarea şi simularea poluarii mediului), Didactic Series UAB, 2022

E) Articole/studii publicate în reviste de circulaţie internaţională, recunoscute;

1. V. Dragan, I.G. Ivanov, I.-L. Popa, A Game — Theoretic Model for a Stochastic Linear Quadratic Tracking Problem, Axioms 2023, 12, 76 **IF: 1.824**
2. L.E. Biris, T. Ceausu, I.-L. Popa, N. Seimeanu, On uniform polynomial splitting of variational nonautonomous difference equations in Banach spaces, Annals of West University of TimisoaraMathematics and Computer Science58, 2, (2022), 22– 37
3. V Drăgan, IL Popa, IG Ivanov, A linear quadratic tracking problem for impulsive controlled stochastic systems: The infinite horizon time case, Mathematical Methods in the Applied Sciences, 2022 https://doi.org/10.1002/mma.8911 **IF: 3.007**
4. H Waheed, A Zada, R Rizwan, IL Popa, Hyers–Ulam Stability for a Coupled System of Fractional Differential Equation With p-Laplacian Operator Having Integral Boundary Conditions, Qualitative Theory of Dynamical Systems 21 (3), 1-24, 2022, **IF: 0.931**
5. A Zada, M Alam, KH Khalid, R Iqbal, IL Popa, Analysis of q-fractional implicit differential equation with nonlocal Riemann–Liouville and Erdélyi-Kober q-fractional integral conditions, Qualitative Theory of Dynamical Systems 21 (3), 1-39, 2022 **IF: 0.931**
6. H Waheed, A Zada, R Rizwan, IL Popa, Controllability of coupled fractional integrodifferential equations, International Journal of Nonlinear Sciences and Numerical Simulation, 2022, https://doi.org/10.1515/ijnsns-2022-0015, **IF: 2.156**
7. A Zada, B Pervaiz, M Subramanian, IL Popa, Finite time stability for nonsingular impulsive first order delay differential systems, Applied Mathematics and Computation 421, 126943, 2022 **IF: 4.397**
8. S Begum, A Zada, S Saifullah, IL Popa, Dynamical behavior of random fractional integro-differential equation via hilfer fractional derivative, University politehnica of

bucharest scientific bulletin-series a-applied mathematics and physics, 84(3), 137-148, 2022 **IF: 0,903**

9. V Drăgan, IL Popa, IG Ivanov, A linear quadratic tracking problem for stochastic systems controlled by impulses. The finite horizon time case, Carpathian Journal of Mathematics 38 (3), 725-735, 2022, **IF: 1,360**
10. LE Biriş, T Ceauşu, I.L. Popa, N.M. Seimeanu, Lyapunov Conditions for One-Sided Discrete-Time Random Dynamical Systems, Carpathian Journal of Mathematics 38 (3), 777-788, 2022 **IF: 1,360**
11. V. Dragan, E. F. Costa, I.-L. Popa, S. Aberkane, Exact Detectability of Discrete-Time and Continuous-Time Linear Stochastic Systems with Periodic Coefficients. A unified approach, IEEE Transactions on Automatic Control67(11), 5730-5745, 2022, **IF: 6.549**
12. M Alam, A Zada, IL Popa, A Kheiryan, S Rezapour, MKA Kaabar, A fractional differential equation with multi-point strip boundary condition involving the Caputo fractional derivative and its Hyers–Ulam stability, Boundary Value Problems 2021 (1), 1-18, **IF: 1.793**
13. V. Dragan, E. F. Costa, I.-L. Popa, S. Aberkane Exact Detectability: Application to Generalized Lyapunov and Riccati Equations, Systems & Control Letters 157, 105032, 2021, **IF: 2.742**
14. V Drăgan, IG Ivanov, IL Popa, O Bagdasar, Closed-Loop Nash Equilibrium in the Class of Piecewise Constant Strategies in a Linear State Feedback Form for Stochastic LQ Games, Mathematics 9 (21), 2713, 2021 **IF: 2.592**
15. U. Riaz; A. Zada; Z. Ali; I.-L. Popa; S. Rezapour, S. Etermal On a Riemann-Liouville type implicit coupled system via generalized boundary conditions, Mathematics 9 (11), 1205, 2021, **IF: 2.592**
16. V. Dragan, I.-L. Popa, A Spectral Criterion for the Existence of the Stabilizing Solution of a Class of Riccati Type Differential Equations with Periodic Coeffcients, Studia Universitatis Babes-Bolyai, Mathematica 66 (1), 159-177, 2021
17. A. Zada, H. Waheed, I.–L. Popa, J, Alzabut, Ulam-Hyers stability of impulsive integrodifferential equations with Riemann-Liouville boundary conditions, Article Nr.: 64, Advence in Difference Equations, 2020 **IF: 3.761**
18. I.-L. Popa, T. Ceausu, L.E. Biris, T. Li, A. Zada, Generalized Exponentially Stable Linear Time-Varying Discrete Behaviors, Ann. Acad. Rom. Sci. Ser. Math. Appl. Vol. 12, No. 1-2, 2020, 256-275
19. I.-L. Popa, Lyapunov Functions for Random Semi-Dynamical Systems in Terms of Tempered Exponential Splitting, Mathematical Methods in the Applied Sciences 45(15), 1923-11932, 2021 **IF: 3.007**
20. V. Dragan, I. Ivanov, I.-L. Popa, On the Closed Loop Nash Equilibrium Strategy for a Class of Sampled Data Stochastic Linear Quadratic Differential Games, Chaos, Solitons and Fractals, 2020 **IF: 9.922**
21. V. Dragan, I. Ivanov, I.-L. Popa, Stochastic Linear Quadratic Differential Games in a State Feedback Setting with Sampled Measurements, Systems & Control Letters 134 (2019), 104563 **IF: 2.742**
22. L. E. Biris, T. Ceausu, C. Mihit, I.-L. Popa, Uniform exponential trisplitting - a new criterion for discrete skew-product semiflows, Electronic Journal of Qualitative Theory of Differential Equations, 70(2019), 1-22. **IF: 1.316**
23. I.-L. Popa, T. Ceausu, O. Bagdasar, Ravi P. Agarwal, Characterizations of Generalized Exponential Trichotomies for Linear Discrete-time Systems, An. St. Univ. Ovidius Constanta, Vol. 27(2), 2019, 153-166. **IF: 0.886**
24. L.E. Biris, C. L. Mihit, T. Ceausu, I.-L. Popa, On uniform exponential trisplitting for cocycles of linear operators in Banach spaces Analele Universitatii de Vest, Timisoara Seria Matematica – Informatica LVI, 2, (2018), 81– 103

25. L. E. Biris, T. Ceausu, C. Mihit, I.-L. Popa, On uniform exponential trisplitting of discrete skew-product semiflows, Electronic Notes on Discrete Mathematics, Vol. 67, 2018, 91-96
26. V. Dragan, I.-L. Popa, S. Aberkane, On the Asymptotic Structure of the Stabilizing Solution of the Riccati Equation Arising in Connection with the LQ Regulator Problem for a class of Singularly Perturbed Stochastic Systems, ROMAI J., v. 14, No. 2(2018), 67-87.
27. I.-L. Popa, L. E. Biris, T. Ceausu, T. Li, Remarks on Generalized Stability for Difference Equations in Banach Spaces, Electronic Notes on Discrete Mathematics 70 (2018), 77–82.
28. O. Bagdasar, E. Hedderwick, I.-L. Popa, On the rations and geometric boundaries of complex Horadam sequences, Electronic Notes on Discrete Mathematics, Vol. 67, 2018, 63-70
29. V. Dragan, S. Aberkane, I.-L. Popa, Optimal filtering for a class of Itô stochastic systems: The dichotomic case, Automatica, Volume 90, April 2018, Pages 47-53 **IF: 6.15**
30. V. Dragan, I.-L. Popa, S. Aberkane, Optimal Filtering of a signal generated by a system modeled by Itô differential equations with periodic coeficients: The dichotomic case. to appear in Bull. Math. Soc. Sci. Math. Roumanie Tome 61 (109), No. 4, 2018, 347–359 **IF: 0.232**
31. V. Dragan, I.-L. Popa, H. Mukaidani, T. Morozan, Exponential Stability in Mean Square of a Large Class of Singularly Perturbed Stochastic Linear Differential Equations, Mathematics and its Applications / Annals of AOSR, Vol. 10, No. 1/2018, 140-164.
32. M. Megan, I.-L. Popa, Exponential splitting for nonautonomous linear discrete-time systems in Banach spaces, Journal of Computational and Applied Mathematics, 312 (2017), 181-191 **IF: 2.872**
33. I.-L. Popa, T. Ceausu, M. Megan, Characterizations of the (h,k,\mu,\nu)-Trichotomy for Linear Time-Varying Systems, Mathematical Methods in the Applied Sciences Volume 40, Issue 17 30, 2017, 6172–6177 **IF: 3.007**
34. O. Bagdasar, I.-L. Popa, On the periodicity of certain non-homogeneous complex Horadam sequences, Electronic Notes on Discrete Mathematics, 56 (2016), 7-12
35. I.-L. Popa, T. Ceausu, O. Bagdasar, Characterizations of Generalized Exponential Trichotomies for linear discrete-time systems, Electronic Notes on Discrete Mathematics, 56 (2016), 65-70
36. V. Dragan, S. Aberkane, I.-L. Popa, Optimal H_2 Filtering for Periodic Linear Stochastic Systems with Multiplicative White Noise Perturbations and Sampled Measurements, Journal of The Franklin Institute, Volume 352, Issue 12, December 2015, Pages 5985–6010 **IF: 4.246**
37. I.-L.. Popa, T. Ceausu, M. Megan, Nonuniform power instability and Lyapunov sequences, Applied Mathematics and Computation 247(2014), 969-975 IF: 4.397
38. I.-L. Popa, M. Megan, T. Ceausu, On h-Trichotomy of Linear Discrete-Time Systems in Banach Spaces, Acta Universitatis Apulensis 39(2014), 329-339
39. I.-L. Popa, M. Megan, T. Ceausu, Nonuniform Exponential Dichotomies in Terms of Lyapunov Functions for Noninvertible Linear Discrete-Time Systems, The Scientific World Journal, Volume 2013, Article ID 901026, 7 pages
40. G.M. Babutia, M. Megan, I.-L. Popa, On (h, k)-Dichotomies for Nonautonomous Linear Difference Equations in Banach Spaces, International Journal of Differential Equations, ID 761680, 7 pag., vol. 2013
41. I.-L. Popa, M. Megan, T. Ceausu, Exponential dichotomies for linear discrete-time systems in Banach spaces, Appl. Anal. Discrete Math., 6(2012), 140-155 **IF: 1.414**

42. I.-L. Popa, T. Ceausu, M. Megan, On exponential stability for linear discrete-time systems in Banach spaces, Comp. Math. Appl., 63(2012), 1497-1503 **IF 3.218**
43. I.-L. Popa, A note on power instability of linear discrete-time systems in Banach spaces, An. Univ. Timişoara Ser. Mat. -Inform., 1(2012), 83-89.
44. I.-L. Popa, M. Megan, T. Ceausu, Nonuniform behaviours for linear discrete-time systems in Banach spaces, Acta Universitaris Apulensis, Special Issues 2011, 339-347.
45. N. Lupa, M. Megan, I.-L. Popa, On weak exponential stability of evolution operators in Banach spaces, Nonlinear Anal. 73 (2010), 2445-2450 **IF: 1.743**
46. M. Megan, T. Ceausu, I.-L. Popa, On exponential convergence of linear recurrence sequences, Gazeta Matematica Seria A, Anul XXVIV(CVIII), Nr. 3-4/2011, pp. 69-79.
47. N. Lupa, I.-L. Popa, On exponential stability of linear skew-evolution semiflows in Banach spaces, An. Ştiinţ. Univ. Ovidius Constanţa Ser. Civil Engineering, 1(2009), 175-184.
48. V. Dragan, I.-L. Popa, S. Aberkane, On the Stochastic Linear Quadratic Optimal Control Problem by Piecewise Constant Controls. The Infinite Horizon Time Case, to appear in Mathematical Methods in the Applied Sciences

F) Publicaţii in extenso, apărute în volume ale principalelor conferinţe internaţionale de specialitate, din ţară şi străinătate;

1. O. Bagdasar, A. Birlutiu, M. Chen, I.-L. Popa, Qualitative Case Study Methodology: Automatic Design and Correction of Ceramic Colors, 21st International Conference on System Theory, Control and Computing, 2017, 704-708.
2. V. Dragan, S. Aberkane, I. I. Ganchev , I.-L. Popa, On the stabilizing solution of periodic Riccati differential equations related to a class of stochastic linear quadratic differential game, 20th IFAC World Congress, IFAC 2017, 9977-9982
3. I.L. Popa, T. Ceausu, generalized exponential trichotomy for difference equations, IEEE International Symposion on Applied Computational Inteligente and Informatics, 2016, 173-176.
4. N. Lupa, M. Megan, I.-L. Popa, Generalized Exponential Dichotomies for Evolution Operators, 10 Editions of IEEE International Symposion on Applied Computational Inteligente and Informatics, 2015, 55-58.
5. V. Dragan, S. Aberkane, I.-L. Popa, Optimal H_2 Filtering for Linear Stochastic Systems with Multiplicative White Noise Perturbations and Sampled Measurements, 13th International Conference on Informatics and Control, ICICNCO 2015
6. I.-L. Popa, On exponential stability of linear discrete-time evolution operators in Banach spaces, Proceedings of the International Symposium Research and Education in an Innovation Era, 2010, 211-215
7. I.-L. Popa, On exponential instability of linear discrete-time systems in Banach spaces, International Proceedings of the International Symposium Research and Education in an Innovation Era, 2010, 194-200.
8. I.-L. Popa, Nonuniform exponential instability for evolution operators in Banach spaces, Proceedings of the 12-th Symposium of Mathematics and its Applications, 2009, 162-168.
9. N. Lupa, I.-L. Popa, On a concept of exponential stability in Banach spaces, Proceedings of the International Symposium Research and Education in an

Innovation Era, (2008), 70-77.

10. I.-L. Popa, T. Ceausu, L. E. Biris, A Zada, On Tempered Exponential Trisplitting for Random Semi-Dynamical Systems, to apperar in IACMC 2022 Conference Proceeding, Springer Proceedings in Mathematics & Statistics 2022

G) Alte lucrări şi contribuţii ştiinţifice sau, după caz, din domeniul creaţiei artistice (alte publicaţii, proiecte de cercetare-dezvoltare pe bază de contract/grant, premii şi distincţii obţinute pentru activitatea didactică şi de cercetare, etc.).

1. alte publicaţii

1. V. Dragan, I.-L. Popa, S. Aberkane, V. Razvan, A Necessary and Sufficient Condition for the Existence of the Stabilizing Solution of a Large Class of Discrete-time Riccati Equations with Periodic Coefficients, submitted for publication
2. V. Dragan, T. Ceausu, I.-L. Popa, L.E. Biris, On tempered exponential dichotomy for random semi-dynamical systems, submitted for publication
3. H. Waheed, A. Zada, I-L Popa, S. Etemad, A. Akgül, S. Rezapour, Existence and Stability Analysis on Sequential Caputo–Type p–Laplacian Fractional BVPs with Multi Point Boundary Conditions, submitted for publication
4. K. Shah, A. Zada, I.-L. Popa, Stability and controllability of non-autonomous neutral system with two delays, submitted for publication
5. B. Pervaiz, A. Zada, I.-L. Popa, Analysis of fractional integro causal evolution impulsive systems on time scales, submitted for publication
6. H. Waheed, A. Zada, I.-L. Popa, S. Etemad, S. Rezapour, Analysis of \psi-Hilfer-Type Fully Hybrid Problem with the Help of Some Inequalities in the Generalized Darbo's Criterion, submitted for publication
7. O. Bagdasar, M. Chen, V. Dragan, I.G. Ivanov, I.-L. Popa, On Horadam Sequences with Dense Orbits and Pseudo-Random Number Generators, submitted for publication
8. V. Dragan, S. Aberkane, I.-L. Popa, T. Morozan, On the stability and mean square stabilization of a class of linear stochastic systems controlled by impulses, submitted for publication

2. proiecte de cercetare-dezvoltare

1. Project POSDRU/161/2.1/G/142060 “Intreprinderea Ta Primul Job” (Your Company – Your First Job) Key person from „1 Decembrie 1918” University of Alba Iulia

2. Project POSDRU/56/1.2/S/32678 “Formarea cadrelor didactice universitare și a studenților în domeniul utilizării unor instrumente moderne de predare-învățare-evaluare pentrudisciplinele matematice, în vederea creării de competențe performante și practice pentru piața muncii” (Formation of academics and students in the use of modern teaching-learning-assessment tools for mathematical disciplines in order to create effective and practical

skills for the labour market), West University of Timisoara Coordinator Prof. Dr. Mihail Megan, member of the West University of Timisoara team.

3. Project CNFIS-FDI-2017-0592 “Mecanisme si instrumente de corelare a ofertei educationale cu cerintele pietei muncii in cadrul universitatii “1 Decembrie 1918” din Alba Iulia” (Mechanisms and tools to correlate the educational offer with the require-ments of the labor market within the "1 Decembrie 1918" University of Alba Iulia) (PRO-INSERT) Key person: partnership representative
4. Project Nr. 91/19.12.2017, “Dezvoltare, afirmare, reușită la începutul studenției” (DARIS), (Development, affirmation, success early student), Proiectul privind Învățământul Secundar (ROSE), 2018-2020
5. ”Stagii integrate de practică și consiliere profesională pentru absolvenți competitivi pe piața muncii (SIPAC)” POCU/626/6/13/131603, Expert responsabil piața muncii
6. Travel Grant from EEA Grants to visit Nesna University, Norway, May 2016
7. Travel Grant from Erasmus+ to visit Derby University, United Kingdom, March 2016
8. Travel Grant from CEEPUS Grant to visit University of Miskolc, Hungary, August 2016
9. Travel Grant from Erasmus+ to visit Derby University, United Kingdom, March 2017
10. Travel Grant from Erasmus+ to visit University of Technology, Russia, June 2018
11. Travel Grant from Erasmus+ to visit Derby University, United Kingdom, September 2018
12. Travel Grant from Erasmus+ to visit University of Derby, United Kingdom, 2020
13. Travel Grant from Erasmus+ to visit University of Catania, Italy, May 2022
14. Travel Grant from Erasmus+ to visit Polytechnic of Porto (ISEP), Portugal, (in progress)
15. Travel Grant from Erasmus+ to visit Politehnic University of Valencia, Spain, (in progress)
16. PhD Research Grant of the Romanian Education Ministery, Project Nr. 11190 “Asymptotic behaviors of Linear Discrete-Time Systems in Banach Spaces”
17. Project PN-III-P2-2.1-BG-2016-0333 “Sistem inteligent bazat pe invatare automata si vedere artificiala pentru optimizarea fluxului de fabricatie a portelanului” (Intelligent system based on machine learning and artificial vision for the optimization of manufacturing porcelain) of the Romanian National Authority for Scientific Research and Innovation, CNCS/CCCDI – UEFISCDI, key person; Responsible for modeling complex systems
18. Project PN-III-P2-2.1-PED-2016-1835 “Modele computationale pentru reproducerea culorilor in produse ceramice” (Computational Models for Reproducing Ceramics Colors) of the Romanian National Authority for Scientific Research and Innovation, CNCS/CCCDI –UEFISCDI, key person;
19. Project PN-III-P1-1.1-MC-2017-2172, short-term research grant to Texas A.&M. University, U.S.A., 2018
20. Project PN-III-P1-1.1-MC-2018-3273, short-term research grant to Missouri S&T University, U.S.A., 2018
21. „Masurari electrice, electronice, fluidice si elaborarea auditului energetic complex pentru punctele de lucru din Sibiu si Buzias ale companiei SC SIMEA Sibiu Srl pentru anul 2015” (Electrical, electronic and fluidic measurements and the development of an energetic complex audit for the

workstations in Sibiu and Buzias of the company SC SIMEA Sibiu for 2015) based on research contract No. 928/21.10.2015 with SIEMENS Industrial Manufacturing Engineering and Applications SIMEA Srl. Key person; Responsable for theoretical analysis and experimental simulation

22. „Servicii de intocmire a bilantului energetic complex pentru instalatiile aferente ale CAA SA pentru anul 2015" (Services supporting the energetic complex audit of the subordinated workstations of CAA SA for 2015) based on the research contract Nr 968/11.11.2015 with S.C. Compania de Apa Arad SA. key person; Responsible for thoretical and experimental measurements

3.premii şi distincţii obţinute pentru activitatea de cercetare

1. On weak exponential stability of evolution operators in Banach spaces, Nonlinear Anal.73(2010), 2445-2010. Indicator PN-II-RU-PRECISI-2010-4, Cod 420.
2. On exponential stability for linear discrete-time systems in Banach spaces, Comp. Math. Appl. 63(2012), 1497-1503. Indicator PN-II-RU-PRECISI-2012-6, Cod 0947.
3. Nonuniform power instability and Lyapunov sequences, Appl. Math. Comp. 247(2014), 969-975 Indicator PN-II-RUPRECISI-2015-9- 9568
4. Optimal H_2 Filtering for Periodic Linear Stochastic Systems with Multiplicative White Noise Perturbations and Sampled Measurements, Journal of The Franklin Institute, 352 (12), 5985-6010, PN-III-P1-1.1-PRECISI-2016-10938
5. Characterizations of the (h,k,\mu,\nu)-Trichotomy for Linear Time-Varying Systems, Mathematical Methods in the Applied Sciences Volume 40, Issue 17 30, 2017, 6172–6177, PN-III-P1-1.1-PRECISI-2017-20898
6. Optimal filtering for a class of Itô stochastic systems: The dichotomic case, Automatica, Volume 90, April 2018, Pages 47-53, PN-III-P1-1.1-PRECISI2018-23345
7. Uniform exponential trisplitting - a new criterion for discrete skew-product semiflows, Electronic Journal of Qualitative Theory of Differential Equations, 70(2019), 1-22, PN-III-P1-1.1-PRECISI-2019-38977
8. Stochastic Linear Quadratic Differential Games in a State Feedback Setting with Sampled Measurements, Systems & Control Letters 134 (2019), 104563 PN-III-P1-1.1-PRECISI-2020-42152
9. On the closed loop Nash equilibrium strategy for a class of sampled data stochastic linear quadratic differential games CHAOS SOLITONS & FRACTALS PN-III-P1-1.1-PRECISI-2020-43190
10. Ulam-Hyers stability of impulsive integrodifferential equations with Riemann-Liouville boundary conditions Advances in Difference Equations PN-III-P1-1.1-PRECISI-2020-44730
11. A fractional differential equation with multi-point strip boundary condition involving the Caputo fractional derivative and its Hyers-Ulam stability, PN-III-P1-1.1-PRECISI2021-54486
12. On a Riemann–Liouville Type Implicit Coupled System via Generalized Boundary Conditions, PN-III-P1-1.1-PRECISI2021-54819
13. Lyapunov functions for random semi-dynamical systems in terms of tempered exponential splitting, PN-III-P1-1.1-PRECISI-2021-3642
14. Exact detectability: Application to generalized Lyapunov and Riccati

equations, PN-III-P1-1.1-PRECISI-2021-64188

4. **premii şi distincţii obţinute pentru activitatea**

1. Diploma de excelenta “Professor Bologna” 2017 oferita de Alianta Nationala a Organizatiilor Studentesti din Romania (ANOSR)

Alba Iulia, 12.01.2023 Assoc. Prof. Habil Popa Ioan-Lucian