



CV DUMITRU POPESCU



Profesor universitar la Facultatea de Automatică și Calculatoare din Universitatea Politehnica din București

Conducator de doctorat în domeniul "Ingineria Sistemelor și Calculatoare" și domeniul "Ingineria Sistemelor și Calculatoare"

Director al Centrului de Cercetare "Automatică, Conducere de Proces și Calculatoare"-ACPC din Universitatea Politehnica București

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Date personale

Nascut in comuna Vladimir- Gorj, a absolvit liceul Tudor Vladimirescu din Tg.Jiu in anul 1961. A absolvit facultatea de Electronica si Telecomunicatii din Institutul Politehnic dib Bucuresti in 1966 si in 1975 a absolvit facultatea de Matemaica -Mecanica din Universitatea Bucuresti.

Din 1993 este profesor univrsitar la facultatea de Automatica si Calculatoare si directorul Centrului de cercetare ACPC-Automatica, Conducere de Proces si Calculatoare, din UPB. A ocupat functia de decan al facultatii in perioada 2004-2012: este conducator de doctorat din 1993, si a fost membru al Consiliului facultatii si Senatului UPB si profesor invitat la universitati din Franta, Italia, Germania, Finlanda.

Este fondatorul si directorul Scolii de Vara ” Control Avansat si Noi tehnologii Informatice” eveniment de tinuta europeana care functioneaza in fiecare an, din 1994 si pana in prezent. A publicat 28 de carti de specialitate in domeniul Automaticii si Ingineriei Sistemelor la edituri importante din tara si strainatate si peste 200 de lucrari si articole sustinute la conferinte internationale si publicate in jurnale si reviste recunoscute. Este editor si recenzor la edituri importante din strainatate, Hermes-Lavoisier din Paris si John Wiley din Londra si senior editor la Jurnalul SIC din tara.

A participat in calitate de chairman sau membru al unor Comitete Internationale de Program, la organizarea si desfasurarea unor conferinte recunoscute international, SSC- Sistem Structure and Control IFAC Conference, Bucharest 1997, CiFA Conference Internationale Francophone an Automatique, Bucarest 2008, CDC- IFAC Conference on Control and Diagnostic Bucharest 2017, ECC- European Control Conference, Bucharest 2023.

A fost reprezentantul Romaniei la Consiliul European de Automatica - EUCA in perioada 2010-2014 si este membru permanent al Comitetelor Tehnice IFAC, TC/CPC--6.1 (Chemical Process Control) 1999-prezent, TC/BIOC-8.3(Biosystems,Biotechnologies Control) 2003-prezent.

Pentru rezultate stiintifice remarcabile, a fost premiat cu: premiul Traian Vuia -1998, al Academiei Romane, premiul Stefan Odobreja - 2013, al Academiei Oamenilor de Stiinta din Romania, premiul Gheorghe Cartianu - 2014, al Academiei Romane, premiul Hanri Coanda – 2015, al Academiei Romane si al Lojei Nationale, premiul Academiei de Stinte Tehnice din Romania, Vasile Catuneanu – 2017, premiul Martin Bercovici-2019 al Academiei Oamenilor de Stiinta din Romania.

Este membru corespondent si vicepresedinte al sectiei de Electronica si Automatica al Academiei de Stiinte Tehnice din Romania si membru titular si presedintele sectiei de Stiinta si Tehnologia Informatiei a Academiei Oamenilor de Stiinta din Romania si DHC al Universitatii de Petrol si Gaze din Ploiesti.



1. Titluri didactice /stiintifice

1.1. Studii Academice: Absolvent Institutul Politehnic Bucuresti, Facultatea de Electronica si Telecomunicatii, 1966; Universitatea din Bucuresti, Facultatea de Matematica si Informatica, 1975. stagii de lunga durata la INP Grenoble, IP Torino, UST Lille in perioada 1994- 2020;

1.2. PhD studii: Doctorat in Automatica la Institutul Politehnic din Bucuresti din 1978, cu titlul tezei "Optimizarea Proceselor Industriale ", conducator prof. Sergiu Calin.

1.3. Specializare: Stagiul de Cercetare la IPA Bucuresti 1966-1970 specializare Automatizari Industriale, Profesor universitar din anul 1991, specializare in Identificarea Sistemelor si Control, Ingineria Sistemelor, Automatica Industriala si Conducere de Proces, Optimizare si Decizii de Conducere;

1.4. Functie didactica: Profesor la Universitatea "Politehnica" din Bucuresti, Facultatea de Automatica si Calculatoare, Departamentul de Automatica si Ingineria Sistemelor, doctor in Automatica.

1.5. Experienta academica si de cercetare:

01/09/1966 – 01/09/1970, Cercetator stagier, IPA Bucuresti;

01/09/1970 – 01/09/1975, Asistent, Institutul "Politehnic" Bucuresti;

01/09/1975 – 01/03/1991, Sef lucrari Institutul "Politehnic" Bucuresti;

01/06/1991 – prezent, Profesor, la Universitatea "Politehnica" din Bucuresti;

01/02/1993 – prezent, Director al centrului de cercetare ACPC- Automatica, Conducere de Proces si Calculatoare si director al societatii spin-off Control Engineering and Energy-CE&E, din 2013.

01/09/1990 – prezent, Responsabilul laboratorului de Sisteme Numerice de Conducere si al platformei de cercetare CANTI din UPB.

2. Activitate Didactica

2.1. Cursuri curente predate

Conducerea Proceselor Industriale, Sisteme Numerice de Control, Industrial Processes Control (anul 4, Facultatea de Automatica si Calculatoare), Proiectarea Aplicatiilor pentru , Control in Timp Real (an 5 master, Facultatea de Automatica si Calculatoare) Automatica Industriala-Studii de caz (an 6 master, Facultatea de Automatica si Calculatoare).



2.2. Responsabil pentru programe academice si profesor invitat

Responsabil in programele TEMPUS PEC 2736/91, JEP 2736/94 in colaborare cu INP Grenoble si IP Torino; responsabil programe in rețeaua academica CDA, 1999-2002 cu UT Tampere, INP Grenoble, IP Torino, Kahosch Gent, ESIA Annecy;

Responsabil de programe europene de mobilitati Socrates 1994-2017: SUPELEC, Ecole Polytechnique de Paris, INP Grenoble, IP Torino, Ecole Centrale Lille, Ecole Polytechnique de Lille, Université de Savoie, UT Tampere, Université de Picardie ;

Profesor invitat: 1997, IP Torino (prof. Naldi): 1999, 2000, Ecole Supérieure d'Ingénieurs d'Annecy, Université de Savoie (prof. L. Foulloy) : 2006, 2008, Ecole Centrale Lille (prof. P. Borne), 2007, Faculté de Mathématique et Informatique, Université Joules Verne de Picardie (prof. A.Hajjaji) ;ESIGELEC de Rouen(prof. Chafouk) : 2017, 2018, 2019;

Profesor Asociat: 2003, 2004,2008, 2019 Ecole Polytechnique de Lille, Université de Science et Technologies de Lille ;

Presedinte si membru in jurii PhD de examinare si sustinere teze: INP Grenoble, SUPELEC, ESIA-Savoie si Ecole Centrale de Lille (7 teze) ;

Co-director pentru coordonare teze in cotutela la INP Grenoble, Polytech' Lille, Ecole Centrale de Lille, Ecole Polytechnique de Savoie, SUPELEC, Université Joules Verne de Picardie, ESUPELEC de Rouen (11 teze) ;

Director "Scoala Europeana de Vara "Control Avansat si Noi Tehnologii Informatice-CA'NTI" responsabil: 1994- prezent, Bucuresti, UPB, Facultatea de Automatica si Calculatoare.

3.Experienta Stiintifica

3.1 Domenii

Ingineria Sistemelor, Control si Informatica Aplicata, Proiectarea Asisteta a Sistemelor Numerice de Control, Control Intelligent, Adaptiv si Robust, Programare Matematica, Optimizare , Aplicatii de Conducere in Timp Real;

Experienta dobandita prin activitati dezvoltate in Centrul de Cercetare "Automatica, Conducere de Proces si Calculatoare- ACPC" si prin colaborare cu alte centre si laboratoare din strainatate, din universitati recunoscute: LAMMI din Université de Savoie, LAG din INP Grenoble, LEE din Universitatea Catolica Gent, LAI din Torino, LAGIS din Lille si LS2 SUPELEC din Paris.

3.2. Publicatii importante Carti si monografii: 25 (8 publicate in edituri recunoscute din strainatate); articole publicate sau sustinute la conferinte stiintifice: 264; contracte de cercetare stiintifica: 48 (responsabil pentru 36); brevete: 2.



3.3 Activitati semnificative de cercetare si experienta in managementul proiectelor (europene coordonate sau in parteneriat).

TEMPUS PEC 2736/91, in colaborare cu INP Grenoble si IP Torino; TEMPUS JEP 2736/94, in colaborare cu INP Grenoble si IP Torino;

PAI-Brancus bilateral project, Ecole Centrale de Lille-UPB, (2000-2002), (resp.FR-M. Staroswieki, Ecole Centrale de Lille, resp.RO-D. Popescu);

PAI-Brancus bilateral project, Virtual Laboratory and Remote Control, Ecole Politech d'Annecy-UPB (2003-2005) resp.FR- J.Lottin, resp.RO- D. Popescu);

ECONET, Réseau de recherche en Automatique Avancée, Ecole Centrale de Lille-UPB, (2005-2007), (2007-2010) (resp.FR-P.Borne , resp.RO-D. Popescu);

Proiect European ERRIC – FP7 (resp. WP6 D. Popescu), REPOT-2010-1, nr. 264207, 2010-2014, contractor UPB;

CDA Socrates project, Joint Program for Advanced Academic Studies (2000-2002);

Socrates Erasmus European Academic Program in parteneriat cu UT Tampere, INP Grenoble, IP Torino, Univ. Katholic Gent, ESIA Annecy (resp.prof. D.Popescu);

ARCUS, projet Grayshim en Automatique et Transport (2007-2010) (resp.FR-JM, Richard, resp.RO- D.Popescu)

EUREKA IKF RO project, Information Knowledge Fusion (2001-2003);

CEC-WYS-FP6, Central European Center for Young Scientists, (2004-2006);

EU-NCIT-FP6, National Center for Information Technology leading to EU IST excellence (2005-2008)

4. Recunoastere Nationala si Internationala

Membru al Societatii de Automatica si Informatica Tehnica-SRAI, din 1994;

Membru al Comitetelor Tehnice IFAC: TC/APC 1993-1999, TC/PC 2000-2003, TC/CPC -6.1 (Chemical Process Control) 2003-prezent, TC/BIOC-8.3(Biosystems-Biotechnologies) 2003-prezent;

Membru al Cosiliului European de Control Automat, *European Automatic Control Council-EUCA*, 2008-2014;

Editor la editurile *John Wiley-Londra* si *Hermes-Lavoisier-Paris*, pentru seria de lucrari “ *Advanced Control and Applied Informatics*”.

Membru al IPC la peste 20 Conferinte Internationale: membru al Program Committee, CSCS International Conference, Bucharest 2005, 2007, 2009, 2011, 2013, membru al Program Committee,



IFAC Conference, Large Scale Systems, Bucharest, 2001; membru al Program Committee, IMACS World Congress, Paris, 2005; membru al Program Committee, CIFA 2006, Bordeaux, 2006; membru al Program Committee, CESA 2006, Pekin, 2008; membru al Program Committee, IFAC Conference, LSS, Gdansk, 2007; membru al Program Committee IFAC Conference, MCPL, Sibiu, 2007; membru al Program Committee, International Conference, SOFA-Seged, 2007, Gyula, 2009; membru al IPC/IFAC Conference, MCPL, Cambria, 2010; membru al IPC/ MED 2010; membru al IPC/ICSCS Conference, Lille, 2012, 2013; membru al IPC/ICCSTC, Sinaia, 2010-2019; Chairman al Conferintelor internationale sau Sesiunilor invitate: IFAC Conference, System Structure and Control, SSC' 97, Bucharest, 24-27 October, 1997; chairman la Conferinta Internationala Francofona in Automatica-CIFA 2008 International Conference, UPB – Faculty of Automatic Control and Computer Engineering, 3-5 September 2008; chairman la International Workshop on Logistics, IFAC- ACCA Santiago de Chile, 24-27 December, 2008; chairman la IFAC World Congress Milano, September, 2011; chairman la ICSCS Conference, Lille, 2012, 2013; co-chairman of the CSCS International Conference, Bucharest 2005, 2007, 2009, 2011, 2018, 2019. Chairmen al conferintei IFAC- Advanced Control and Diagnosis- ACD 2017 Bucuresti, 2019 Bologna.

5. Alte titluri, premii si recunoasteri

Coordonator teze de doctorat in domeniul *Automatica, Ingineriei Sistemelor* din 1993 (32 de teze sustinute, dintre care 11 in dubla coordonare in strainatate); coordonator al programului de master *Control Avansat pentru Aplicatii in TR*; fondator si director al Scolii Europene de Vara, *Control Avansat si Noi Tehnologii Informatice* 1994-2020; profesor asociat la National Technical Institute from Grenoble – INPG, ENSIEG – LAG, 1997, Ecole Polytechnique de Lille, Ecole Centrale de Lille, 2000-2006; membru al Cosiliului European de Control Automat, *European Automatic Control Council-EUCA*, 2008-2014;

Premiul **Traian Vuia** pt. Automatica al Academiei Romane, pentru grupul de lucrari "*Identificarea si optimizarea sistemelor*", in anul 1998;

Premiul **Stefan Odobreja** al Academiei Oamenilor de Stiinta din Romania pentru lucrarea "*Optimization in Engineering Sciences- Exact Methods*", editura John Wiley, in anul 2013;

Premiul **Gheorghe Cartianu** al Academiei Romane, pentru lucrarea, "*Wavelets: Theory and Applications*", Editura Academiei Romane, Bucuresti, pe anul 2013;

Premiul **Hanri Coanda** al Academiei Romane si al Lojei Nationale si Academiei Romane pentru contributi in domeniul- Stiinte Aplicate, Bucuresti, in anul 2015;

Premiul ASTR **Vasile Catuneanu** pentru lucrarea "*Optimisation en Sciences de l'Ingenieur "Methodes Euristicas, Stochastiques et Support Decisions*", Editura Hermes-Lavoisier, Paris, in anul 2017.

Premiul **Martin Bercovici** al Academiei Oamenilor de Stiinta din Romania pentru lucrarea, "*Optimization in Engineering Sciences- Exact Methods*", editura John Wiley, in anul 2019.



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Membru al Consiliului Facultatii de Automatica si Calculatoare din UPB, 2000-2012, decanul facultatii de Automatica si Calculatoare din UPB, 2004-2012 membru al Senatului UPB, 2004-2012; membru al comisiei CNATDCU, 2012-2020;

Data: Martie 2024

Profesor universitar dr.ing. Dumitru Popescu

Facultatea de Automatica si Calculatoare, Politehnica Bucuresti



Profesor Dumitru POPESCU, facultatea de Automatică și de Calculatoare, UPB

**Anexa – Listă lucrări
perioada 2009-2023**

Publicații

1. Cărți

1.1. Cărți publicate în străinătate

1. V. Ionescu, **D. Popescu**, *System Structure and Control*, Ed. Springer, 1997.
2. J.M. Dion, **D. Popescu**, *Commande Optimale - Optimisation des Systemes*, Ed. Diderot, Paris, 2000.
3. P. Borne, **D. Popescu**, F.Filip, D.Stefanoiu, *Optimisation en Sciences d' Ingenieur-Methodes Exactes*, Ed. Hermes-Lavoisier Paris, ISBN 978-2-7462-3927-2, 2013.
4. P. Borne, **D. Popescu**, F.Filip, D.Stefanoiu, *Optimization Techniques for Engineering- Exact Methods*, Ed. John Wiley, Londra, , ISBN: 978-1-84821-432-3, 2013.
5. D.Stefanoiu, P. Borne, **D. Popescu**, F.Filip, *Optimisation en Sciences d' Ingenieur-Methodes Euristiques, Stochastiques, et Support de Decision*, Ed. Hermes-LavoisierParis, ISBN 978-2-7462-3927-2 , 2014.
6. D.Stefanoiu, P. Borne, **D. Popescu**, F.Filip, *Optimization Technique for Engineering- Methaeuristics, Stochastic Methods and Decision Support*, Ed. John Wiley, Londra ISBN 978-1-84821-498-9, 2014.



7. **D.Popescu**, D.Stefanoiu, P.Borne, *Design Process Control for Industrial Applications*, , Ed John Wiley, Londra, 2017/ 302 pag., ISBN 978-1-78630-014-0.

8. **D.Popescu**, D.Stefanoiu, P.Borne, *Conception de la Commande pour les Applications Industrielles*. Ed. Hermes-Lavoisier Paris, 2017/284 pag., ISBN 978-1-78405-293-5.

1.2 Cărți publicate în România

1. S. Calin, M. Tertisco, **D. Popescu**, C. Popeea, *Optimizari in Automatizari Industriale*, Ed. Tehnica, Bucharest, 1979.

2.M. Suci, **D. Popescu**, T. Ionescu, *Automatica, Roboti si Microprocesoare*, Ed.Tehnica, Bucharesti, 1985.

3.M.Tertisco, **D. Popescu**, B. Jora, I. Russ, *Automatizari Continue*, Ed. Didactica si Pedagogica, Bucharest, 1988.

4.I.D.Landau, **D. Popescu**, D. Stefanoiu, *Identificarea si Comanda sistemelor*, Ed.Tehnica, Bucharest, 1997.

5. S. Gentil, **D. Popescu**, *Digital Command and Automatic Artificial Intelligence* , Ed. Tehnica, Bucharest, Romania, 1998.

6.L. Foulloy, **D. Popescu**, G.D. Tanguy, *Modelisation, Identification et Commande des Systems*, Ed. Academiei Romane, Bucharest, 2004.

7.P. Borne, F. Filip, **D. Popescu**, M. Benrejeb, *Automatique Avancee et Informatique Appliquee*, Ed. Academiei Romane, Bucharest, Romania, 250 pag., 2009.

8.Stefanoiu D., Stanasila O, **Popescu D.**, *Wavelets: Theory and Applications*, Ed. Academiei Romane, Bucharest, Romania, 750 pag., 2009.

9.C. Lupu, A. Udrea, **D. Popescu**, C. Petrescu, A. Șiclea, C. Dimon, B. Irimia, *Practical Solutions for the Control of Nonlinear Processes* ,Polytechnic Press Publishing House, Bucharest, Romania, 2010.

10.**D. Popescu**, C. Dimon, *Industrial Automation and Process Control*, AOSR Publishing House, Bucharest, Romania, ISBN 978-606-8371-25-2, 2011.

11.**D. Popescu**, R. Dobrescu, F.Ionescu, D. Stefanoiu, *Modeling in Industrial Processes*, Publishing House, Bucharest, Romania, 2011.

12. **D.Popescu**, **E.Iancu** , *Automatica* Vol. 1, cap.18, Ed. Romanian Academy, Bucharest, ISBN 978-973-1883-4, 2009.



13. D.Popescu, N.Paraschiv, C.Patrascioiu, *Automatica* Vol. 3, cap.33/ 40 pp., Ed. Romanian Academy, ISBN 978-973-27-263-6, 2015.

14. C. Petrescu, D. Popescu, C. Lupu, *Hardware/software Architectures for Driving Numerical Systems*, MatrixRom Publishing House (COD CNCIS 39), Bucharest, 2007, 132 pp, ISBN 978-973-755-197-9.

15. D. Popescu, C. Lupu, C. Petrescu, M. Alexandru, M. Mateescu, *Process Control Systems*, Printech Publishing House, 380 pp., Bucharest 2004, ISBN 973-718-016-X

16. D. Popescu, *Proceedings Volume, CIFA' 2010* International Conference, Printech Publishing House, Bucharest, 2010.

17. C. Lupu, A. Udrea, D. Popescu, C. Petrescu, A. Ticlea, C. Dimon, B. Irimia, *Practical Solutions for Control of Nonlinear Processes*, Polytechnic Press Publishing House, Bucharest, 2010.

2. Articole publicate în jurnale ISI, BDI

2.1. Florin Filip, Dumitru Popescu, Mihaela Mateescu, Optimal Decisions for Complex Systems-software Packages, *Mathematics and Computers in Simulation*, 76, (5-6 January 2009), p. 422-429. ISSN: 0378-4754.

2.2. Cornoiu Mihai, Bara Catalin, **Popescu Dumitru**, Metaheuristic Approach in Nonlinear Systems, UPB, *Scientific Bulletin, Series A*, ISSN 1223-7027, 2013.

2.3. D. Popescu, C. Petrescu, C. Dimon, M. Boangiu, Control and Optimization for a Petrochemical Reactor, pp.14-19, Villeneuve d'Ascq, Franta, 2013, *Proceedings IEEE*, ISBN: 978-1-4799-2021-1.

2.4. A. Tache, C. Vasseur, D. Stefanoiu, M. Vermandel, **D. Popescu**, Supervised Classification of Cerebral Blood Vessels, pp.38-43, Villeneuve d'Ascq, Franta, 2013, *Proceedings IEEE*, ISBN: 978-1-4799-2021-1.

2.5. S.O. Medianu, C. Lupu, **D. Popescu**, L. Lefèvre, Optimal Closed-Loop Identification Solution Using the Direct and Indirect Methods for a Flexible Transmission System, pp.74-79, Villeneuve d'Ascq, France, 2013, *Proceedings E*, ISBN: 978-1-4799-2021-1.IEE

2.6. H. Dahmani, O. Pagès, A. El Hajjaji, **D. Popescu**, Observer-Based Multi-Actuator Vehicle Chassis Control in Critical Situations, pp.156-161, Villeneuve d'Ascq, France, 2013, *Proceedings IEEE*, ISBN: 978-1-4799-2021-1;

2.7. Ciprian Lupu, Livia Bandici, Carmen Molnar, **Dumitru Popescu**, Reduced Simulation Strategy-Multiple Model Applicability, *Journal OF Electrical and Electronics Engineering*, Volume 6, Issue 1, May 2013, Pages 63-68, ISSN 1844-6035, Scopus.



- 2.8.** C.Bara, M.Cornoiu, **D.Popescu**, Optimal and Fault Detection Control Strategy for Ship Stabilization, Scientific Bulletin of the Politehnica University of Timisoara, Vol. 57, nr.2, ISSN 1224-600X, 2012.
- 2.9.** S.Carstoiu, D.Popescu, Simulator for the Multi-model Control of Diesel Engines, SIC Journal, ICI 2014.
- 2.10.** L.Lefevre, S.Medianu, C.Lupu, **D.Popescu**, Adaptive Control Solution of a Flexible System, CEAI Journal, UPB, 2014.
- 2.11.** S.Medianu, L.Lefevre **D.Popescu**, C.Lupu, Simulator for Open Loop Identification of Dynamic Systems, Scientific Bulletin C, UPB, 2014.
- 2.12.** C. Sandu, **D.Popescu**, Reinforcement Learning for the Control of Blood Pressure IN Post Cardiac Surgery Patients, Scientific Bulletin C, UPB, 2014.
- 2.13.** M. Azzouzi, R. Diarra, **D.Popescu**, "Fault diagnosis of sensors, actuators and wind turbine system", Diagnostyka, 2018, 19 (4), pp. 3-10, ISSN: 16416414.
- 2.14.** Gliga, H. Chafouk, **D.Popescu**, C.Lupu, Estimate the Process Noise of Nonlinear System , in Mechanical Systems and Signal Processing-MSSP, 2019, JER: 4.47 (Q1)
- 2.15.** **D.Popescu**, C.Dimon, A.Nita, Stochastic Optimization and Risk Problems, Scientific Bulletin A of UPB, Vol. 81 pp.185-197, ISSN 1223-7027, 2019.
- 2.16.** F. Hamidi, H.Jerbi, S.Olteanu, **D.Popescu**, Enhanced Stabilizing Strategy for Switching Nonlinear Systems, SIC Journal, Vol.28 (4), pp.391-400, ISSN 1220-1766, 2019.
- 2.17.** Mihaela-Ancuța Mone, Sette Diop, **Dumitru Popescu**, "Evaluating the maximum domain of parameter model uncertainties in the combustion of a Diesel engine", 2021 25th International Conference on System Theory, Control and Computing (ICSTCC), publicaT în IEEE Xplore Digital Library.
- 2.18.** M. Aloui, F. Hamidi, H. Jerbi, M. Omri, **D. Popescu**, R. Abbasi, "A Chaotic Krill Herd Optimization Algorithm for Global Numerical Estimation of the Attraction Domain for Nonlinear Systems", Mathematics Journal, Vol 9(15), 1743, [https:// doi.org 10.3390/math9151743](https://doi.org/10.3390/math9151743), 2021;
- 2.19.** Ancuța Mone, Sette Diop, **Dumitru Popescu**, " Multi-Model Control MMC Approach for Nonlinear Combustion Regim of Diesel Engines" , Springer Series, Lecture Notes, în Control and Information Sciences, ISBN 978-3-030-85317-4, July, 2021;
- 2.20.** **Dumitru Popescu**, Cătălin Dimon, Pierre Borne "Advanced Control for Hydrogen Pyrolysis Installations" , Springer Series, Lecture Notes, în Control and Information Sciences, ISBN 978-3-030-85317-4, July, 2021.



2.21. Lavinius Gliga, **Dumitru Popescu**, Houssein Chafuk, " *Fault Detection using State Estimation and Machine Current Signature Analysis*", UPB Scientific Bulletin, Series C, Vol.83(3), ISBN 2286-3540, sept, 2021.

2.22. L. Gliga, R. Khemmar, H. Chafuk, **D. Popescu**, *A Survey of Wireless Communication Technologies for an IoT connected Wind Farm*, Wireless Personal Communication Journal, Springer Nature, <https://doi.org/10.1007/s11277-021-0899-2>, 2021.

2.23. D. M. Băncilă, **D. Popescu**, A. I. Chiriac, Ș. C. Colbu, S. C. Olteanu and C. Petrescu, *Chemical Non-Isothermal Processes-Stability study and Optimal Control*, 2021 25th International Conference on System Theory, Control and Computing (ICSTCC), 2021, pp. 18-24, doi: 10.1109/ICSTCC52150.2021.9607060.

2.24. Ș. C. Colbu, F. Hamidi, **D. Popescu**, H. Jerbi and D. M. Băncilă, *Stability Analysis and Control for Non-isothermal CSTR Reactors*, 2021 9th International Conference on Systems and Control (ICSC), 2021, pp. 504-509, doi: 10.1109/ICSC50472.2021.9666616.

2.25. **D. Popescu**, C. Dimon, C. Lupu, D. Băncilă and Ș. Colbu, *Supervisory Control for Hydrogen Production by Ethane Pyrolysis Procedure*, 2021 IEEE CHILEAN Conference on Electrical, Electronics Engineering, Information and Communication Technologies (CHILECON), 2021, pp. 1-6, doi: 10.1109/CHILECON54041.2021.9702973.

2.26. Ș. C. Colbu, **D. Popescu**, D. M. Băncilă, M. A. Mone and A. Petrescu-Niță, *Stochastic Optimization and Risk Problems for Engineering Applications*, 2022 8th International Conference on Control, Decision and Information Technologies (CoDIT), 2022, pp. 775-779, doi: 10.1109/CoDIT55151.2022.9803976.

2.27. C. Dimon, M. Teme, **D. Popescu**, *Optimization of Road Traffic Using Intelligent Traffic Light Systems*, INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL, 17(4), 2022.

2.28. C. Dimon, **D. Popescu**, R. Bilbie, *Efficient and Collaborative Decision, Services Management for Services Management*, ScienceDirect Procedia Computer Science, Elsevier Vol. 214, pages 1144-1151, ISBN 1877-0509, 2022.

2.29. R. Bilbie, **D. Popescu**, C. Dimon, M. Teme, P. Borne, *Game Theory System Optimization in a Supplaiier-Costumar Transport Network*, ScienceDirect Procedia Computer Science, Elsevier Vol. 221, pages 1036-1043, ISBN 1877-0509, 2023.

3. Articole BDI publicate în jurnale indexate

3.1. **D. Popescu**, C. Petrescu, C. Lupu, C. Dimon, Control and optimization in thermo-energy installations, Automation and Instrumentation, No. 6, 2009.

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