Universitatea POLITEHNICA Bucureşti
Facultatea de Automatica si Calculatoare
Departamentul Automatica si Ingineria Sistemelor
professor, Lupu Ciprian

P A P E R   L I S T s

(after 2000, inclusive)

A. Doctoral / postdoctoral thesis

A1. "*Contribuţii la elaborarea sistemelor de conducere pentru aplicaţii de timp real*" – condusa de dl. Prof.dr.ing. Dumitru Popescu , presented in 30.05.2003

A2. "*Metode, structuri si startegii de implementare hardware si software a sistemelor de conducere in timp real pentru procesele multivariabile industriale*" condusa de dl. prof. univ. dr. Gyorodi Robert, presented in 03.2013

B. Books and Laboratory/Teaching books

(Ca –Laboratory/Teaching books,; Cb - Books)

Ca1. Lupu C., Dragoicea M., Programarea aplicatiilor pentru conducere in timp real, Editura AOSR, 2011, 100 pag., ISBN 978-606-8371-27-6

Ca2. Dumitriu S., Dragoicea M., Lupu C., Modeling and simulations / Modelare si Simulare, Editura Printech, ISBN 973-652-533-3, 124 pag., Bucuresti 2002

Cb1. Lupu C., Udrea A., Popescu D., Petrescu C., Ticlea Al., Dimon C., Irimia B., - Practically solutions for nonlinear processes control / Solutii practice de conducere a proceselor neliniare, Editura PolitehnicaPress, 2010, 310 pag., ISBN 978-606-515-105-5

Cb2. Petrescu C., Popescu D., Lupu C., Arhitecturi hardware/software pentru sisteme numerice de conducere , Editura MatrixRom, Bucuresti, 2007, 132 pag, ISBN 978-973-755-197-9

Cb3. Popescu D., Stefanoiu D., Lupu C., Petrescu C., Ciubotaru B., Dimon C. – Automatica Industriala, Editura AGIR, Bucuresti 2006, 382 pag., ISBN 973-720-093-4

Cb4. Lupu C. – Capitolul Simplified deployment of robust real-time systems using multiple model and process characteristic architecture-based process solutions, 20 pag. 341-360, in Recent Advances in Robust Control - Novel Approaches and Design Methods, Editor Andreas Mueller, - Editura Intech, 2011, 462 pag., ISBN 978-953-307-339-2.

Cb5. Popescu D., Petrescu C. Lupu C., Dimon C., - Commande et optimisation des installations de chauffage de l'air dans une aci´erie, in Automatique Avancee et Informatique Apliquee, Editura Academiei Romane, 2009, pp. 193-198, ISBN 978-973-27-1806-3

Cb6. Lupu C., D. Popescu, C. Petrescu, M. Alexandru, M. Mateescu, Process Control Systems / Sisteme de Conducere a Proceselor, Editura Printech, 380 pag., Bucuresti 2004, ISBN 973-718-016-X

C. Papers published in ISI/ IDB (International Data Base) quoted international journals/conferences proceeding

ISI - Journals

1. IDB (International Data Base)Medianu Silviu, Lupu Ciprian, Lefevre Laurent, Popescu Dumitru, Solution for the model adequacy verification in indirect adaptive control, Journal of Control Engineering and Applied Informatics, Volume: 18, ssue: 1, Pages: 51-58, 2016, ISSN 1454-8658, WOS:000373525400006

2. Doiniţa Chiriţă, Ciprian Lupu, Multiple model control solution for series fans processes (with variable load), U.P.B. Sci. Bull., Series C, Vol. 78, Iss. 2, 2016, ISSN 2286-3540, pp. 65-78, Scopus, WOS:000388733300006

3. Ciprian LUPU, Dumitru POPESCU, Gabriel FLOREA, Supervised Solutions for Precise Ratio Control: Applicability in Continuous Production Line, Studies in Informatics and Control, ISSN 1220-1766, vol. 23 (1), pp. 53-64, 2014. WOS:000333661500006

4. Lupu, Al. Ticlea, A. Udrea., C. Petrescu, D. Popescu, Control Solutions for Processes with Large Load Variations, - Journal of Control Engineering and Applied Informatics, Volume: 12, ssue: 2, Pages: 52-57, 2010, ISSN 1454-8658, WOS:000279323100009

5. Udrea A., A. Costinoaia, C. Lupu, D. Popescu -Hysteresis Modeling with Prandtl-Ishlinskii Operators for Linearization of a (Ba/Sr)Tio3 Based Actuator- Buletinul Stiintific al UPB, seria A, apare in vol. 72, no.2, 2010, ISSN 1223-7027, pp. 51-63, WOS:000278871400005

6. Lupu M., O. Florea, C. Lupu -The Structural Influence of The Forces of the Stability of Dynamical Systems- Analele Stiintifice Ale Universitatii Ovidius Constanta-Seria Matematica vol. 17, 3, 2009, ISSN 1224-1784, pp. 159-169, WOS:000272196800014

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2. SOPONARIU Alexandru, LUPU Ciprian, Temperature and Flow Decoupling Control for Air Heater Systems, Journal of Electrical and Electronics Engineering, Volume 7, Issue 1, May 2014, Pages 147-152, ISSN: 1844-6035, Scopus

3. Lupu Ciprian, Bandici Livia, Molnar Carmen, Popescu Dumitru, 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

4. Lupu Ciprian, Tabacu Ciprian, Campan Dan Lucian, Tertisco Mihai, Shock Absorbers Multi-Modeling and Suspension Optimization, Journal of Electrical and Electronics Engineering, Volume 6, Issue 1, May 2013, Pages 69-72, ISSN: 1844-6035, Scopus

5. Lupu, C., Bandici, L., Solution for some nonlinear multivariable processes control, Journal of Electrical and Electronics Engineering, Volume 5, Issue 1, May 2012, Pages 115-120, ISSN: 1844-6035, Scopus

6. Lupu, C., Petrescu, C, Optimization solution for multiple model control structures, Journal of Electrical and Electronics Engineering, Volume 5, Issue 1, May 2012, Pages 121-126, ISSN: 1844-6035, Scopus

7. Lupu C., Spinu A., Udrea A., Marin S., Control Solutions for Air Heater Systems, Journal of Computer Science and Control Systems, Vol. 4, nr. 1, 2011, pp. 79-84, ISSN: 1844-6043, (Scopus)

8. Molnar C., Lupu C., Udrea A., Bandici L., Multiple Model Control for Some Hysteresis Processes, Journal of Electrical and Electronics Engineering, Vol. 4, nr. 1, 2011, pp. 129-134, ISSN: 1844-6035 (Scopus)

9. Gabriel Florea, Ciprian Lupu, High performance solutions for acquisition, design and control of a multivariable industrial process, UPB Scientific Bulletin, Series C: Electrical Engineering and Computer Science, Volume 76, Issue 2, pp. 63-74, 2014, Scopus

10. Irimia B., C. Lupu, P. Junie, Control Solution for the Process with Time Delayed Communication Components, U.P.B. Sci. Bull., (Scopus), Series C, Vol. 73, Iss. 2, 2011, pp. 17-28, ISSN 1454-234x, Scopus

11. B. Iliulă, C. Lupu, Design and Real Time Implementation of Multiple-Model Control Solution for Some Classes of Nonlinear Processes, Buletinul Institutului Politehnic din Iasi, Sectia Automatică Si Calculatoare, Tomul LVII (LXI), Fasc. 1, 2011, pp. 9-23, ISSN 1220 - 2169, (Inspec)

12. Lupu C., A. Udrea, D. Popescu, C. Petrescu - Numerical Stability of Adaptive Control Algorithms- Buletinul Stiintific al UPB, seria C, vol. 72, no.3, 2010, ISSN 1454-234x, pp. 61-72, SCOPUS

13. Lupu, C. , Petrescu, C. , Țiclea, A. , Dimon, C. , Udrea, A. , Irimia, B., Multi-model system with nonlinear compensator blocks, UPB Scientific Bulletin, Series C: Electrical Engineering, Volume 70, Issue 4, 2008, Pages 97-114, ISSN 1454-234x, Scopus

14. Lupu, C. , Petrescu, C. , Țiclea, A. , Dimon, C. , Udrea, A. , Irimia, B., Design procedure for inverse model command: Control method for nonlinear processes, UPB Scientific Bulletin, Series C: Electrical Engineering, Volume 70, Issue 3, 2008, Pages 87-100, ISSN 1454-234x, Scopus

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16. Ciprian Lupu, Pierre Borne, Dumitru Popescu, MULTI-MODEL ADAPTIVE CONTROL SYSTEMS, Journal of Control Engineering and Applied Informatics, Vol. 10, No. 1, pp. 49-56, 2008, ISSN 1454-8658, Scopus

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20. Ciprian Lupu, Switching Algorithms For Multimodel Control, Journal of Control Engineering and Applied Informatics, vol. 5, No. 3,4, 2003, pp. 14-24, ISSN 1454-8658 (Scopus)

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1. Lupu, C.; Petrescu, C.; Lupu, M., "An Approach for Stabilized Control Structure on Photovoltaic Grids," in Control Systems and Computer Science (CSCS), 2015 20th International Conference on , vol., no., pp.18-23, 27-29 May 2015, doi: 10.1109/CSCS.2015.133, WOS:000380375200003

2. Lupu, C.; Mihai, C.-C., "Teleconference Application for Mobile Surveillace and Telemedicine Systems," in Control Systems and Computer Science (CSCS), 2015 20th International Conference on , vol., no., pp.418-423, 27-29 May 2015, doi: 10.1109/CSCS.2015.108, WOS: 000380375200062

3. Lupu, C.; Petrescu, C.; A., Petrescu-Nita; Lupu, M., Design Consideration on Algorithms and Control Structures for Photovoltaic Grids, 2015 19th International Conference on System Theory, Control and Computing (ICSTCC), October 14-16, Cheile Gradistei, Romania, ISSN 978-1-4799-8481-7/15, pp. 646-651, WOS: 000380375200062

4. Lupu, C., Chirita, D., Performance control for cascade reservoirs systems, (2015) 2015 13th International Conference on Engineering of Modern Electric Systems, EMES 2015, pp. 1-6, art. no. 7158404, DOI: 10.1109/EMES.2015.7158404, Scopus, IEEE Explore, WOS:000363815100017

5. Gliga, L.I., Mihai, C.-C., Lupu, C., Popescu, D., Adaptive - Robust control a computational efficient real time simulation, (2015) 2015 13th International Conference on Engineering of Modern Electric Systems, EMES 2015, art. no. 7158403, pp. 1-6, DOI: 10.1109/EMES.2015.7158403, Scopus, IEEE Explore, WOS:000363815100016

6. Ciprian Lupu, Vasile Olaru, Dorel Bivolan, Andreea Udrea: Implementation of a telemedicine system for optimal on site medical response in case of disasters and for emergency situations management. The 4th IEEE International Conference on E-Health and Bioengineering - EHB 2013, Grigore T. Popa University of Medicine and Pharmacy, Iaşi, Romania; 11/2013 , pp. 1-4, ISBN 978-1-4799-2372-4, Scopus, WOS: 000346672900024

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University of Medicine and Pharmacy, Iaşi, Romania; 11/2013 , pp. 1-4, ISBN 978-1-4799-2372-4, Scopus, WOS: 000346672900025

8. Irina Andra Tache, Andreea Ioana Udrea, Dan Stefănoiu, Ciprian Lupu: Enhanced Visualization of Cerebral Blood Vessels for X-Ray Angiograms. The 4th IEEE International Conference on E-Health and Bioengineering - EHB 2013, Grigore T. Popa University of Medicine and Pharmacy, Iaşi, Romania; 11/2013 , pp. 1-4, ISBN 978-1-4799-2372-4, Scopus, WOS: 000346672900174

9. Irina-Andra Tache, Constantin-Eugen Cornel, Ciprian Lupu: An overview of remote patient monitoring applications market using WMTS and WLAN implementations for reliable telemedicine systems. The 4th IEEE International Conference on E-Health and Bioengineering - EHB 2013, Grigore T. Popa University of Medicine and Pharmacy, Iaşi, Romania; 11/2013 , pp. 1-4, ISBN 978-1-4799-2372-4, Scopus, WOS: 000346672900041

10. Ciprian LUPU, Cătălin PETRESCU, Gabriel FLOREA, Mircea LUPU, Steering Control for Multiple Propulsion Systems, 17th International Conference on System Theory, Control and Computing – ICSTCC 2013, October 11 - 13, 2013, Sinaia – Palace Hotel, ROMANIA, pp. 319-324, ISBN 978-1-4799-2228-4 , ISBN 978-1-4799-2227-7 , IEEE Catalog Number CFP1336P-CDR, WOS:000330660500052

11. Ciprian TABACU, Octav DINU, Dan Lucian CÂMPAN, Ciprian LUPU, Vehicle Suspension Systems Multi-Modelling, 17th International Conference on System Theory, Control and Computing – ICSTCC 2013, October 11 - 13, 2013, Sinaia – Palace Hotel, ROMANIA, pp. 635-639, ISBN 978-1-4799-2228-4 , ISBN 978-1-4799-2227-7 , IEEE Catalog Number CFP1336P-CDR, WOS:000330660500100

12. Silviu MEDIANU, Dumitru POPESCU, Laurent LEFEVRE, Ciprian LUPU, Identification of a Distributed Parameters System for Thermo-Energetic Applications, 17th International Conference on System Theory, Control and Computing – ICSTCC 2013, October 11 - 13, 2013, Sinaia – Palace Hotel, ROMANIA, pp. 349-355, ISBN 978-1-4799-2228-4 , ISBN 978-1-4799-2227-7 , IEEE Catalog Number CFP1336P-CDR, WOS:000330660500056

13. Lupu, C.; Petrescu, C., "Balancing Strategy for Ratio Control Structures," Control Systems and Computer Science (CSCS), 2013 19th International Conference on , pp. 430-434, 29-31 May 2013, doi: 10.1109/CSCS.2013.98, WOS:000328493800066

14. Lupu, Ciprian, Radu, George, - Real time control solution for nonlinear position system - Proceedings Of The 2011 3rd International Conference on Future Computer and Communication (ICFCC 2011) Pages: 89-94 Published: 2011 ISBN: 978-0-7918-5971-1, WOS:000320410200014

15. Lupu C., Udrea A., O. Pages., M. Azzouzi, Multi Model Control Solution for Some Clases of Hysteretic Processes, 18th IEEE Mediterranean Conference on Control and Automation, 23-25 June, Marrakech, Morocco, DOI: 10.1109/MED.2010.5547646, pp. 1103-1108, ISBN: 978-1-4244-8091-3, WOS:000324864700177

16. Lupu C., Udrea A., Popescu D. - Robust Control Solutions for Some Classes of Hysteretic Processes- 17th IEEE Mediterranean Conference on Control and Automation, 24-26, June, 2009, Thessaloniki, Greece, ISBN 978-1-4244-4684-1, pp. 480-485, WOS:000280699600084

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Annual Industrial Simulation Conference, 2008 , 09-11 June, Lyon, France, pp. 71-76, ISBN 978-90-77381-4-03, WOS:000263829300010

18. Popescu D., Lupu C., Lottin J.,- Control and optimisation for the cowper of a steelmaking plant, The Proceedings of the IMACS Multiconference on Computational Engineering in Systems Applications 4-6 oct., 2006, Beijing, China, pp. 838-842, IEEE Cat. No.06EX1583C, cod 9483740, Publisher IEEE, ISBN 7- 900718-14-1, WOS:000244084600159

19. Lupu C., Popescu D., Ciubotaru, Petrescu C., Florea G.,- Switching Solution for Multiple Models Control Systems, MED06 - 14th Mediterranean Conference on Control Automation, 28-30 June, 2006, Ancona, Italy, paper WLA2-2, pp. 1-6, ISBN 0-9786720-1-1, DOI 10.1109/MED.2006.328827, WOS:000243663000024

20. Matel I., Popescu D., Lupu C., Luican I., Level control system - Virtual experiment, ITI 2003: PROCEEDINGS OF THE 25TH INTERNATIONAL CONFERENCE ON INFORMATION TECHNOLOGY INTERFACES, 2003, Pages: 249-254 DOI: 10.1109/ITI.2003.1225353, ISBN: 953-96769-6-7, WOS:000185582600040

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5. Medianu, S.; Lupu, C.; Popescu, D.; Lefevre, L., "Optimal closed-loop identification solution using direct and indirect methods for a flexible transmission system," Systems and Computer Science (ICSCS), 2013 2nd International Conference on, pp. 74-79, 26-27 Aug. 2013, doi: 10.1109/IcConSCS.2013.6632026, Scopus, IEEE Explore

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9. Medianu, S. , Popescu, D. , Ciprian, L., Sensitivity study of the open loop identification methods based on the whitening of the prediction error, 2012 16th International Conference on System Theory, Control and Computing, ICSTCC 2012; Sinaia;12 October 2012 through 14 October 2012; pp. 1-6, Category number CFP1236P-CDR; Code94836, Scopus, IEEE Explore

10. Lupu C., Udrea A., Al. Ticlea, Control solution for some classes of nonlinear processes, 19th IEEE Mediterranean Conference on Control and Automation, 20-23 June, Corfu, Creece, DOI: 10.1109/MED.2011.5983146, pp. 1046 - 1051, ISBN: 978-1-4577-0124-5, Scopus, IEEE Explore

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12. Elena-Margareta Cimpoeşu, Mădălina Mircioiu, Ciprian Lupu, Cătălin Petrescu, Hierarchical control for ethylene production in petrochemical installations, 2010 Management and Control of Production Logistics, September 8 -10, 2010, Portugal, University of Coimbra, pp. 269-274, doi: 10.3182/20100908-3-PT-3007.00058, IFAC PapersOnLine

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15. Udrea A., M. Voinescu, S. Caramihai, C. Lupu - A Dual Approach for Modelling Urban Traffic- 13th IFAC Symposium on Information Control Problems in Manufacturing, IFAC INCOM, June, 3 - 5, 2009, Moscow, Russia, ISBN 0947-3580, pp. 1400-1405, doi: 10.3182/20090603-3-RU-2001.00233, IFAC PapersOnLine

16. Popescu D., Lupu C., Dimon C., Matei I. -Virtual Laboratory for Distance Learning, Remote Process Control- 17th IFAC World Congress, ISBN 978-1-1234-7890-2/08, pp. 9807-9811, 10.3182/20080706-5-KR-1001.01659, IFAC PapersOnLine

D. Other unquoted papers

- Journals

1. Popescu Cristian, Lupu Ciprian, The automatic identification of fault tree in automatic industrial instalations, Revista Romana de Automatica, no. 4, 2004, pp. 1-8

2. C. Lupu, C. Petrescu, D. Popescu, J. Lottin - "Software Package optimisation Gradient Techniques ", UPB, Tempus PURE, vol 3, Bucuresti 2001, pp. 215-219

- Conferences

1. Lupu Ciprian, Lupu Mircea, Optimized solution for ratio control structures: Multiple propulsion systems case study, The 35-rd "Caius Iacob" Conference on Fluid Mechanics and its Technical Applications, pp. 45-50 2013, November 14- 15, INCAS, Bucharest, ROMANIA

2. Catalin Bara, D. Popescu, C. Lupu, Expert System for generating SCADA configurations with practical applications in the naval industry, CSCS18, 18th International Conference on Control Systems and Computer Science, Bucharest, 24-27 May, 2011, pp. 53-58

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E. Research projects (acting as manager**)**

1. Pn1.   Denumire: "Metode si strategii de implementare software si hardware a sistemelor de conducere in timp real pentru procesele neliniare: solutii multimodel, adaptive, robuste, cu model intern", Numar contract: PNCDI II - IDEI 1044 /2007, - director proiect

2. Pn2.   Denumire : "Configuratii de sisteme de control de tip multimodel pentru aplicatii de timp real", Numar contract : CNCSIS, AT, 27692/14.03.2005, Tema 3, Cod CNCSIS 48, - director proiect

3. Pn3.   Denumire: "Dezvoltarea unui pachet de programe pentru cercetări avansate în simularea numerică a curgerilor (AEROCFD)", Numar contract: CEEX X2C02/18.07.2006, - responsabil partener UPB

4. Pn4.   Denumire: "Echipamente de control cu algoritmi performanti integrati pentru conducerea proceselor industriale (ECAPI)", Numar contract: PNCDI II - INOVARE 2007/1167/2007 , - responsabil partener UPB

5. Pn5.   Denumire: Cercetari pentru dezvoltarea unui sistem pilot de telemedicina pentru monitorizarea, diagnosticarea, localizarea si salvarea persoanei via satelit (SISTELMED)", Numar contract: PNCDI II – P4 - PARTENERIATE 2008/82-095/2008, , - responsabil partener UPB

6. Pn6.   Denumire: "Cercetari pentru Dezvoltarea unui Sistem Expert de Telemedicina pentru Asigurarea Raspunsului Medical Optim Local, in Managementul Dezastrelor si Situatiilor de Urgenta (utilizand cele mai noi tehnologii in domeniul biosenzorilor, comunicatiilor prin

satelit, navigatie prin satelit, TI etc (TELEDIM)", Program STAR – Proiect 43 / 2012 - responsabil partener UPB

7. Pn7. Denumire: " Sisteme inteligente pentru evaluarea deteriorarii mediului ", Numar contract: Grant CNFIS 7072/2001 , - director proiect

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10.01.2017