

## LISTA DE LUCRARI

Candidat: UDREA Andreea-Ioana

### I. TEZA DE DOCTORAT

**A.Udrea**, Tehnici fractale pentru prelucrarea semnalelor, condusa de dl. prof.dr.ing. Dumitru Popescu, sustinuta in 2011, domeniul ingineria sistemelor, Universitatea Politehnica Bucuresti

### II. CĂRȚI PUBLICATE (C)

**Ca** – Cărți / cursuri (manuale) pentru uzul studentilor, publicate în edituri recunoscute.

**Cb** - Cărți de specialitate publicate în edituri recunoscute (autor, coautor, editor);

**Cb1.** C. Lupu, **A. Udrea**, D. Popescu, C. Petrescu, Al. Ticlea, C. Dimon, B. Irimia - 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.** **A.Udrea**, Tehnici fractale pentru prelucrarea semnalelor biomedicale, Editura Politehnica Press, 2014 ISBN:978-606-515-565-7

**Cb3.** **A. Udrea**, Introducere in C, structuri de date si algoritmi, Editura Politehnica Press, 2020, 217 pag, ISBN:978-606-515-922-8 [CNCSIS cod 19]

### III. ALTE MATERIALE PUBLICATE (I,D)

**I** - Culegeri și Îndrumare publicate (separate în edituri cu ISBN și în tipografii locale/de instituții sau de uz intern).

**I1.** **A. Udrea**, Platforma electronica pentru curs si laborator: Programare orientata pe obiecte

**I2.** **A. Udrea**, Platforma electronica pentru curs si laborator: Structuri de date si algoritmi

**I3.** **A. Udrea**, Platforma electronica pentru curs si laborator: Machine learning pentru predictie si control

### IV. ARTICOLE / STUDII IN EXTENSO PUBLICATE (R,V)

**Ris** - Reviste de specialitate de circulație internațională recunoscute (cotate / indexate ISI Thomson Reuters, sau indexate in alte Baze de Date Internationale - BDI specifice domeniului, care fac un proces de selectie a revistelor pe baza unor criterii de performanta

**Ris1.** A. *Udrea*, G.D. Mitra, D. Costea, E.C. Noels, M. Wakkee, D.M. Siegel, T.M. de Carvalho, T.E.C. Nijsten, Accuracy of a smartphone application for triage of skin lesions based on machine learning algorithms, Eur Acad Dermatol Venereol., Volume: 34 Issue: 3 Pages: 648-655 2020 WOS:000529420700055 ; [Q1 IF=5.548]

**Ris2.** de Carvalho TM, Noels E, Wakkee M, A. *Udrea*, Nijsten T, Development of Smartphone Apps for Skin Cancer Risk Assessment: Progress and Promise, JMIR Dermatol 2019;2(1):e13376 DOI: 10.2196/13376 [BDI: Scopus]

**Ris3.** Thissen M, A. *Udrea*, Hacking M, von Braunmuehl T, Ruzicka T, mHealth App for Risk Assessment of Pigmented and Nonpigmented Skin Lesions-A Study on Sensitivity and Specificity in Detecting Malignancy, Journal of Telemedicine and E Health, Volume: 23 Issue: 12 Pages: 948-954, 2017 2017 WOS:000417645500003 [Q2 IF= 2.841]

**Ris4.** A. *Udrea*, D. Popescu, C. Miron, An analysis on the reliability of a series of texture and shape descriptors for melanoma diagnosis, Scientific Bulletin-Series C-Electrical Engineering and Computers Science; Vol. 78, Iss. 2, pp. 23-34; 2016 ; WOS:000388733300003

**Ris5.** A. *Udrea*, M. Olteanu, A Note On The Correlation And Higuchi Dimensions For Image Analysis; Scientific Bulletin-Series A-Applied Mathematics And Physics, Vol. 77, Iss. 2, 2015; pp. 43-48, 2015; ISSN 1223-7027, WOS:000355574100005

**Ris6.** A. *Udrea*, Early Melanoma Detection Based on Chromatic Descriptors and Machine Learning Algorithms, Journal of Control Engineering and Applied Informatics, Vol. 17, Iss. 3, pp 60-67, 2015; ISSN: 1454-8658; WOS:000362387900007

**Ris7.** T. Maier, D. Kulichova, K. Schotten, R. Astrid, T. Ruzicka, C. Berking, A. *Udrea*, Accuracy of a smartphone application using fractal image analysis of pigmented moles compared to clinical diagnosis and histological result, Eur Acad Dermatol Venereol. 2014 Aug 4. DOI: 10.1111/jdv.12648, ISSN 9269959; WOS:000351684500005 [Q1 IF=5.548]

**Ris8.** A.K. Gupta, A. *Udrea*, Beyond linear methods of data analysis: Time series analysis and its applications in renal research, Nephron - Physiology, 124 (3-4), pp. 14-27, 2013 DOI: 10.1159/000356382, ISSN 1660-2137, WOS:000331381600002 [Q2, IF=2.538]

**Ris9.** I. Anghel, R.R.P. Purtau, A. *Udrea*, How relevant are the Estimations of the Fractal Dimension of the Texture and Contour to discriminate between Malignant and Benignant Sinus Tumors – A statistical study, U.P.B. Sci. Bull., Series A, Vol. 74, Iss. 3, pp. 57-66, 2012 ISSN 1223-7027 WOS:000307909700006

**Ris10.** A. *Udrea*, A. Ticlea, V. Tanasa, C. Flutur, On the nonlinear output regulation problem - Part 1 - MIMO nonlinear systems normal forms and a discussion on the necessary conditions for solving the control problem, U.P.B. Sci. Bull., Series A, Vol 74, Iss 4, pp. 3-16, 2012 ISSN 1223-7027, WOS:000312677000001

**Ris11.** A. *Udrea*, M. Olteanu, Image analysis based on the study of the attractor of a time series, U.P.B. Sci. Bull., Series A, Vol 72, Iss 4, pp. 11-20, 2010 ISSN 1223-7027 WOS:000286087500002

**Ris12.** C. 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, issue: 2, Pages: 52-57, 2010, ISSN 1454-8658, WOS:000279323100009

**Ris13.** *Udrea A.*, A. Costinoaia, C. Lupu, D. Popescu -Hysteresis Modeling with Prandtl-Ishlinskii Operators for Linearization of a (Ba/Sr)Tio3 Based Actuator, U.P.B. Sci. Bull., Series A, Vol 72, no.2, pp. 51-62, 2010, ISSN 1223-7027, pp. 51-63, WOS:000278871400005

**Ris14.** I. Sinescu, C. Surcel, C. Mirvald, C. Chibelea, C. Gingu, D. Avram, M. Hirza, M.A. Manu, R. Lazar, C. Săvu, A. *Udrea*, C59 Image fractal analysis in retroperitoneal fibrosis – 5 years of experience with 19 patients, European Urology Supplements, Volume 8, Issue 8, pp. 677-678, 2009 DOI: 10.1016/S1569-9056(09)75084-5, ISSN 1569-9056, WOS:000280285400311

**Ris15.** M. Voinescu, A. *Udrea*, S. Caramihai, On Urban Traffic Modelling and Control, Journal of Control Engineering and Applied Informatics, Vol.11, No. 1, pp. 10-18, 2009 ISSN 1454-8658, WOS:000268886200002

**Ris16.** C. Molnar, C. Lupu, A. *Udrea*, L. Bandici, Multiple Model Control for Some Hysteresis Processes, Journal of Electrical and Electronics Engineering, Vol. 4, nr. 1, 2011, pp. 129-134, ISSN: 1844-6035, [BDI: Scopus]

**Ris17.** C. Lupu, A. *Udrea*, D. Popescu, C. Petrescu - Numerical Stability of Adaptive Control Algorithms-Buletinul Stiintific al UPB, seria C, vol. 72, no.3, pp. 3-14, 2010 ISSN 1454-234x, [BDI: Scopus]

**Ris18.** Lupu, C. , Petrescu, C. , Ţiclea, 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, [BDI: Scopus]

**Ris19.** Lupu, C. , Petrescu, C. , Ţiclea, 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, [BDI: Scopus]

**Ris20.** Lupu C., A. *Udrea*, D. Popescu, C. Flutur -Stabile Algorithms Switching for Multiple Models Control Systems- Wseas Transactions on Systems, nr. 4, vol. 8, May 2009, ISSN 1991-8763, pp. 251-262, [BDI: Scopus]

**Ris21.** Lupu C., Popescu D., *Udrea* A. - Real-time Control Applications for Nonlinear Processes Based on Adaptive Control and the Static Characteristic, Wseas Transactions on Systems and Control, nr. 6, vol. 3, June 2008, pp. 607-616, ISSN 1991-8763, [BDI: Scopus]

**Ris22.** Lupu C., Popescu D., *Udrea* A., Dimon C. - Solutions for Nonlinear Multivariable Processes Control, Wseas Transactions on Systems and Control, nr. 6, vol. 3, June 2008, pp. 597-606, ISSN 1991-8763, [BDI: ACM]

**Ris23.** C. Lupu, A. Spinu, A. *Udrea*, S. Marin, Control Solutions for Air Heater Systems, Journal of Computer Science and Control Systems, Vol. 4, nr. 1, 2011, pp. 79-84, ISSN: 1844-6043, [BDI: Scopus]

**Rns** - Reviste de specialitate de circulație națională recunoscute de CNCSIS. Se mentioneaza Categoria CNCSIS.

**Rns1.** C. Mirvald, C. Surcel, C. Gîngu, A. *Udrea*, I. Sinescu, Geometria fractala și aplicațiile acesteia în medicină, Revista Română de Urologie, 2011, vol.10, nr.2, pag.5,ISSN: 1223-0650 [CNCSIS-B+486]

**Rns2.** A. *Udrea*, M. Olteanu, R. Purnichescu, *Gentianacee family species classification – a Statistical study based on the fractal dimension*, Buletinul Institutului Politehnic din Iasi, vol. lvii (Ixi), nr. 1, 2011 [CNCSIS-B+45]

**Vis-** Volumele unor manifestări științifice internaționale recunoscute, organizate în țară și străinătate, indexate ISI Thomson Reuters sau indexate în alte Baze de Date Internaționale - BDI specifice domeniului, care fac un proces de selecție a publicațiilor pe baza unor criterii de performanță

**Vis1.** A. *Udrea*, Mitra G, Generative Adversarial Neural Networks for Pigmented and Non-Pigmented Skin Lesions Detection in Clinical Images, Proceedings - 2017 21st International Conference on Control Systems and Computer, CSCS 2017, pp 364-368, 201710.1109/CSCS.2017.56 WOS:000449004400049

**Vis2.** A. *Udrea*; Pigmented nevi risk assessment based on the correlation dimension of the associated lesion's attractor; Proceedings 2015 20th International Conference on Control Systems and Computer Science; vol II, ISBN 978-1-4799-1779-2; pp.525-530 An 2015:05; WOS:000380375200076

**Vis3.** Badicu B., A. *Udrea*, "Cross-subjects Emotions Classification from EEG Signals using a Hierarchical LSTM based Classifier," 2019 E-Health and Bioengineering Conference (EHB), Iasi, Romania, 2019, pp. 1-4, doi: 10.1109/EHB47216.2019.8969881. [BDI: Scopus]

**Vis4.** A. *Udrea*, C. Lupu, Real-time acquisition of quality verified nonstandardized colour images for skin lesions risk assessment – a preliminary study; 18th International Conference on System Theory, Control and Computing, Sinaia, 2014, pp 199-204, DOI: 10.1109/ICSTCC.2014.6982415 [BDI: Scopus]

**Vis5.** I. Tache, A. *Udrea*, D. Popescu, M. Vermandel, C. Vasseur, Preliminary results for automatic detection of arterio-venous malformations from medical images, Proceedings - 19th International Conference on Control Systems and Computer Science, pp. 313-318, 2013 DOI: 10.1109/CSCS.2013.82, WOS:000328493800047

**Vis6.** R.R.P. Purta, A. *Udrea*, A modified stochastic simulation algorithm for time-dependent intensity rates, Proceedings - 19th International Conference on Control Systems and Computer Science, pp. 365-369, 2013 DOI: 10.1109/CSCS.2013.101, WOS:000328493800056 ISBN: 978-1-4673-6140-8

**Vis7.** Dimon, C., *Udrea*, A., Compartmental networks approach on urban traffic control, 2013 17th International Conference on System Theory, Control and Computing, ICSTCC 2013; Joint Conference of SINTES 2013, SACCS 2013, SIMSIS 2013 – Proceedings 6688954, pp. 166- 171,2013, DOI: 10.1109/ICSTCC.2013.6688954, WOS:000330660500027 ISBN:978-1-4799-2227-7

**Vis8.** A. *Udrea*, M. Olteanu, A Comparative Study on the Fractal Dimension Method and the Time Series Analysis with Applications in Medical Imaging, Proceedings of the 11th WSEAS International Conference on mathematics and computers in biology and chemistry, G. Enescu University, Iasi, Romania June, pp. 92-98; 2010 ISBN: 978-960-474-194-6; WOS:000292939900017

**Vis9.** S. Caramihai, I. Dumitrache, M. Voinescu, A. *Udrea*, C. Munteanu, Integrated Modeling and Control Platform for Urban Traffic Networks, IEEE International Conference on Systems, Man and Cybernetics, SMC 2010, Istanbul, Octombrie 10-13, 2010 ISBN 978-1-4244-6588-0; WOS:000287606400026

**Vis10.** 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

**Vis11.** Lupu C., Popescu D., Petrescu C., Ticlea A., Dimon C., *Udrea* A., Irimia B. - Multiple-Model Design and Switching Solution for Nonlinear Processes Control, ISC'08, The 6th Annual Industrial Simulation Conference, 2008, 09-11 June, Lyon, France, pp. 71-76, ISBN 978-90-77381-4-03, WOS:000263829300010

**Vis12.** 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

**Vis13.** Lupu C., *Udrea* A., Popescu D. - Improvements of Adaptive Control Algorithms for a Class of Nonlinear Systems- The 20th International DAAAM Symposium, Intelligent Manufacturing & Automation: Focus on Next Generation of Intelligent Systems and Solutions, 25-28th October 2009, Vienna, Austria, ISBN 978-3-901509-71-1, pp. 769-770, WOS:000282335600138

**Vis14.** Lupu C., A. *Udrea*, D. Popescu, C. Flutur - On the Stability of Switching in Multiple Models Control Systems - WSEAS ICAI'09, The 10th International Conference on Automation and Information, 23-25 March, Prague, Czech Republic, ISBN 978-960-6766-77-0, pp. 362-367, WOS:000265594700061

**Vis15.** Lupu C., Tanasa V., *Udrea* A., Craciunescu P. - Methods for Nonlinear Processes Control: Control Structures Based on Nonlinearity Compensators, The 19th INTERNATIONAL DAAAM SYMPOSIUM, "Intelligent Manufacturing & Automation: Focus on Next Generation of Intelligent Systems and Solutions", 22-25th October 2008, Trnava, Slovakia, Proceedings pp.769-770, ISSN 1726-9679, WOS:000262860100384

**Vis16.** Lupu C., Popescu D., *Udrea* A., Dimon C. - Design Procedure for Nonlinear Multivariable Processes Control, WSEAS ICAI'08, The 9th International Conference on Automation and Information, 24-26 June, Bucharest, Romania, pp. 362-367, ISBN 978-960-6766-77-0, ISSN 1790-5117, WOS:000258497000060

**Vis17.** Lupu C., Popescu D., *Udrea* A. - Applications of Adaptive Control Based on Nonlinear Static Characteristic, WSEAS ICAI'08, The 9th International Conference on Automation and Information, 24-26 June, Bucharest, Romania, pp. 350-355, ISBN 978-960-6766-77-0, ISSN 1790-5117, WOS:000258497000058

**Vis18.** Ciprian Lupu, Vasile Olaru, Dorel Bivolau, 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, Iași, Romania; 11/2013 , ISBN 978-1-4799-2372-4, 2013 DOI: 10.1109/EHB.2013.6707256 [BDI: Scopus]

**Vis19.** I. Tache, D. Stefanoiu, A. *Udrea*, C. 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, Iași, Romania; 11/2013 , 2013 DOI: 10.1109/EHB.2013.6707406 [BDI: Scopus]

**Vis20.** Lupu, C. , Popescu, D., Gyorodi, R, *Udrea*, A., Precise ratio control structure for nonlinear blend processes, 2012 20th Mediterranean Conference on Control and Automation, MED 2012 - Conference Proceedings , art. no. 6265823 , pp. 1328-1333, [BDI: Scopus]

**Vis21.** A. *Udrea*, L. Costache, M. Olteanu, D. Popescu, On the Relevance of Nonlinear Analysis of Time Series Associated to CT Kidney Images, Proceedings of 2010 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2010), Cluj-Napoca, 28-30 May, 2010, vol. 2, pp. 304-310, 2010 , ISBN 9781424467259, DOI: 10.1109/AQTR.2010.5520716; [BDI: Scopus]

**Vis22.** A. *Udrea*, M. Tanase, D. Popescu, Nonlinear Deterministic Methods for Computer Aided Diagnosis in Case of Kidney Diseases, 9th International Conference on Informatics in Control, Automation and Robotics (1), Rome, Italy 28-31 July 2012, pp. 511-516 ISBN 9789898565211 [BDI:Scopus]

**Vis23.** A. *Udrea*, M. Tanase, Computer aided diagnosis methods based on fractal and spatial series analysis for kidney CT images, EUROMEDIA 2012 - 17th Annual Scientific Conference on Web Technology, New Media Communications and Telematics Theory Methods, Tools and Applications, pp. 59-63, 2012 [BDI:Scopus]

**Vis24.** Bordea D., Popescu D., *Udrea* A., Modeling and simulation of the dynamics of hydro-energetic systems, IFAC Proceedings Volumes (IFAC-PapersOnline), vol11, part I, pp. 103-107, 2007, ISBN 9783902661258 [BDI: Scopus]

**Vis25.** 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, Greece, DOI: 10.1109/MED.2011.5983146, pp. 1046 - 1051, ISBN: 978-1-4577-0124-5, [BDI: Scopus, IEEE Explore]

**Vis26.** *Udrea*, A., Lupu, C., Popescu, D., Hysteresis Control of a (Ba/Sr)TiO<sub>3</sub> Based Actuator: A Comparison of Prandtl-Ishlinskii and Nonlinear Compensator Numerical Methods, 18th IFAC World Congress, August 28 - September 2, 2011, Milano, Italy, pp. 12733-12738, ISBN: 978-3-902661-93-7, [BDI: IFAC-PapersOnLine]

**Vis27.** Lupu C., A. Spinu, A. *Udrea*, Intelligent Precision Control for Air Heater Systems, IFAC Workshop on Intelligent Control Systems 29 September 2010 - 02 October 2010, Sinaia, Romania, pp. 93-97, [BDI: IFAC-PapersOnLine, Scopus]

**Vis28.** A. *Udrea*, 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. 1-6, [BDI: IFAC-PapersOnLine]

**Vis29.** *Udrea* A., A. Ticlea, V. Tanasa, C. Flutur - Necessary conditions for solving the nonlinear MIMO output regulation problem, Preprints of the 20th Mediterranean Conference on Control & Automation (MED), Barcelona, Spain, July 3-6, 2012 [BDI: Scopus]

**Vi** - Volumele unor manifestări științifice internaționale recunoscute, organizate în țară și străinătate;

**Vi1.** A. *Udrea*, C. Flutur, D. Popescu, Blockage Prevention Mechanism for Traffic Management, Proceedings of the 7<sup>th</sup> EUROSIM Congress on Modelling and Simulation, Praga, Cehia, 2010

**Vi2.** C. Lupu, **A. Udrea**, I. Bechir, C. Sandu, Adaptive Control for Nonlinear Processes Proceedings of the 17<sup>th</sup> International Conference on Control Systems and Computer Science CSCS17, Bucharest, May 26-29, 2009, vol. 2, pg. 65-70.

**Vi3.** C. Lupu, **A. Udrea**, I. Bechir, C. Sandu, Control for Nonlinear Processes with Hysteresis, Proceedings of the 17<sup>th</sup> International Conference on Control Systems and Computer Science CSCS17, Bucharest, May 26-29, 2009, vol. 1, pg. 403-408

**Vi4.** D.A.Crisan, C. Popescu-Mina, **A. Udrea**, Image processing for biologic models using fractal techniques, Proceedings of the 6th EUROSIM Congress on Modelling and Simulation, Ljubljana, Slovenia, 9-13 sept., 2007, Vol.1 Book of Abstracts, pp. 47, Vol.2 Full Papers (CD), pp. 1-7, 2007

**Vi5.** **A. Udrea**, C. Flutur, Commande d'un vehicule electrique – applications, CIFA 2008, IEEE Conference Internationale Francophone d`Automatique, 3-5 Septembre, Bucarest, Roumanie, paper 409

## **V. BREVETE DE INVENȚIE / INOVAȚII (B,A)**

**B** - Brevete de invenție.

**A** - Inovații și alte creații.

## **VI. CONTRACTE ȘI RAPOARTE ȘTIINȚIFICE (P,F)**

**P** – Proiecte de cercetare-dezvoltare – inovare obtinute prin competitie, pe bază de contract/grant, in tara/strainatate (**Pn** – nationale, **Pi** - internationale).

**Pn1.** Denumire: Metodologie pentru corectia de culoare a imaginilor achizitionate cu telefoane mobile, contractor SkinVision BV, Valoarea 12000 euro, UPB- ACPC (Director) 21561 /31.10.2017

**Pn2.** 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

**Pn3.** Bursa post-doctorala "Metode de analiză și clasificare a semnalelor medicale - cu aplicații în dermatologie", in cadrul proiectului Performanță sustenabilă în cercetarea doctorală și post doctorală – PERFORM, Cod Contract: 138963, Beneficiar: Universitatea "Dunărea de Jos" din Galați

**F** – Alte lucrări de cercetare – dezvoltare

## **VII. COMUNICĂRI ȘTIINȚIFICE NEPUBLICATE (E)**

**E** – Lucrări prezentate la diferite seminarii/expoziții, conferințe, etc.

Data:

28.09.2020

Semnatura:

Udrea Andreea-Ioana