

Activitatea științifică (2000-2018)

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a) Lista publicațiilor științifice:

• Monografii, capitol de carte (edituri internaționale)

Nr crt	Autori	Titlul	Editura	Anul
1.	Iulia Dumitru, Stéphane Ploix, Ioana Făgărășan , Sergiu Stelian Iliescu	Advances in Intelligent Control Systems and Computer Science/ Book chapter: Energy Efficiency Dependency Analysis for a Data Center	Ed. Springer Berlin Heidelberg, ISBN 978-3-642-32547-2; ISSN 2194-5357; pp 307-321, 2013 (indexat SCOPUS) http://link.springer.com/chapter/10.1007/978-3-642-32548-9_22	2013
2.	Nicoleta Arghira, Stéphane Ploix, Ioana Făgărășan , Sergiu Stelian Iliescu	Advances in Intelligent Control Systems and Computer Science/ Book chapter: Forecasting Energy Consumption in Dwellings ;	Ed. Springer Berlin Heidelberg, ISBN 978-3-642-32547-2; ISSN 2194-5357; pp 251-264, 2013 (indexat SCOPUS) http://link.springer.com/chapter/10.1007/978-3-642-32548-9_18	2013
3.	Daniela Hossu, Ioana Făgărășan , Andrei Hossu and Sergiu Stelian Iliescu,	Nuclear Power Plants, Book Chapter: Evolved Fuzzy Control System for a Steam Generator;	edited by Soon Heung Chang, ISBN 978-953-51-0408-7, DOI: 10.5772/34497, pag.19-36 InTech, March 3, 2012	2012
4.	Iliescu S.St., Făgărășan I. , Dumitru I., Arghira N.,	Introduction dans la theorie du reglage automatique – Session de Formation pour DGGT – Brazzaville, Congo (F),	Fichtner (6916A08/FICHT-6198557-v1), Germania, 2010.	2010

• Monografii, capitol de carte (edituri naționale)

Nr crt	Autori	Titlul	Editura	Anul
1	Sergiu Stelian Iliescu, Ioana Făgărășan , Clement Feștilă, Ioan Dumitrache	Automatica, vol. 3, Coordonator Ioan Dumitrache/ Capitolul 31. Automatizări în Energetică	Ed.Academiei Romane, Bucuresti, 2016, ISBN: 978-973-27-2613-6, Nr.Pag: 1-73	2016
2	Nicoleta ARGHIRA, Ioana FĂGĂRĂȘAN	Tehnici de inteligența artificială folosite în managementul energiei electrice/Capitolul MANAGEMENTUL ENERGIEI ELECTRICE	Editura Printech, Bucuresti, 2015 ISBN 978-606-23-0506-2 Pag.: 17-30	2015
3	Ioana FĂGĂRĂȘAN	Tehnici de inteligența artificială folosite în managementul energiei electrice/Capitolul INTRODUCERE ÎN TEHNICILE DE INTELIGENȚA ARTIFICIALĂ	Editura Printech, Bucuresti, 2015 ISBN 978-606-23-0506-2 Nr. Pag.: 1-6	2015
4	Iulia STAMATESCU, Grigore STAMATESCU, Ioana FĂGĂRĂȘAN , Nicoleta ARGHIRA, Vasile CALOFIR	Tehnici de inteligența artificială folosite în managementul energiei electrice/Capitolul Studiu de caz: Sistem fuzzy de suport al deciziei pentru optimizarea performanțelor sistemelor fotovoltaice cu urmarire	Editura Printech, Bucuresti, 2015 ISBN 978-606-23-0506-2 Nr. Pag.:140- 146	2015

5	Vlad TUDOR, Sergiu ST. ILIESCU, Nicoleta ARGHIRA, Ioana FĂGĂRĂȘAN ,	Tehnici de inteligenta artificiala folosite in managementul energiei electrice/Capitolul Studiu de caz: Optimizarea retelelor de distributie a energiei electrice cu algoritmi genetici	Editura Printech, Bucuresti, 2015 ISBN 978-606-23-0506-2 Pag.: 147-152	2015
6	Daniela HOSSU, Ioana FĂGĂRĂȘAN , Sergiu ST. ILIESCU	Tehnici de inteligenta artificiala folosite in managementul energiei electrice/Capitolul Studiu de caz: Solutie de control a cazanelor cu abur utilizand tehnica fuzzy	Editura Printech, Bucuresti, 2015 ISBN 978-606-23-0506-2 Pag.: 153-162	2015
7	Nicolae OLARIU, Nicoleta ARGHIRA, Ioana FĂGĂRĂȘAN	Modelarea si simularea retelelor de joasa tensiune cu producere din surse distribuite de energie/ Capitolul PROBLEMATICA PRODUCERII DISTRIBUITE DIN SURSE REGENERABILE	Editura Matrix Rom, Bucuresti, 2013 ISBN 978-606-25-0036-8 Nr. Pag.: 25	2013
8	Florin DRAGOMIR, Grigore STAMATESCU, Ioana FĂGĂRĂȘAN	Modelarea si simularea retelelor de joasa tensiune cu producere din surse distribuite de energie/ Capitolul MODELAREA ȘI SIMULAREA GENERATOARELOR FOTOVOLTAICE	Editura Matrix Rom, Bucuresti, 2013 ISBN 978-606-25-0036-8 Nr. Pag.: 30	2013
9	Sergiu St.ILIESCU, Ioana FĂGĂRĂȘAN	Modelarea si simularea retelelor de joasa tensiune cu producere din surse distribuite de energie/ Capitolul MODELAREA ȘI SIMULAREA MICROTURBINELOR EOLIENE	Editura Matrix Rom, Bucuresti, 2013 ISBN 978-606-25-0036-8 Nr. Pag.: 20	2013
10	Horia Mihai Motit, Eugen Diaconescu, Ioana Fagarasan , Marian Romeo Catana –	Automatizari si Instrumentatie,	131 pagini, Ed. MatrixRom, Bucuresti 2013, ISBN 978-606-25-0025-2 (editura acreditata-cod CNC SIS: 39)	2013
11	I. Dumitru, G. Stamatescu, N. Arghira, I. Fagarasan , S. St. Iliescu, V. Calofir	Automatizari si Instrumentatie, Horia Mihai Motit, Eugen Diaconescu, Ioana Fagarasan, Marian Romeo Catana./ Capitolul Modelarea și monitorizarea sistemului de răcire pentru un centru de date	pp 109-111, Matrix Rom, ISBN 978-606-25-0025-2	2013
12	Iliescu S.St., Făgărășan Ioana , Arghira Nicoleta, Dumitru Iulia	Automatizari si Instrumentatie, Horia Mihai Motit, Eugen Diaconescu, Ioana Fagarasan, Marian Romeo Catana./ Capitolul Abordarea sistemică a reglajului automat frecvență-putere activă într-un sistem electroenergetic interconectat	pp.103-105, Matrix Rom, ISBN 978-606-25-0025-2	2013
13	Iliescu S.St., Făgărășan Ioana , Dumitru Iulia, Arghira Nicoleta, Stamatescu Grigore	Automatizari si Instrumentatie, Horia Mihai Motit, Eugen Diaconescu, Ioana Fagarasan, Marian Romeo Catana./ Capitolul Sisteme modulare de simulare a conducerii automate a unor procese industriale pentru dotarea platformelor educaționale multifuncționale	pp. 91-93, Matrix Rom, ISBN 978-606-25-0025-2	2013
14	Făgărășan Ioana , Iliescu S.St., Dumitru Iulia, Arghira Nicoleta	Automatizari si Instrumentatie, Horia Mihai Motit, Eugen Diaconescu, Ioana Fagarasan, Marian Romeo Catana./ Capitolul Detectia defectelor în cazul instalațiilor cu schimb de căldură	pp.97-100, Matrix Rom, ISBN 978-606-25-0025-2	2013
15	Făgărășan Ioana , Iliescu S.St., Dumitru Iulia, Arghira Nicoleta	Automatizari si Instrumentatie, Horia Mihai Motit, Eugen Diaconescu, Ioana Fagarasan, Marian Romeo Catana./ Capitolul Metode de detecție a defectelor bazate pe model	pp.94-96, Matrix Rom, ISBN 978-606-25-0025-2	2013

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17	Arghira Nicoleta, Făgărășan Ioana , Iliescu S.St., Dumitru Iulia	Automatizari si Instrumentatie, Horia Mihai Motit, Eugen Diaconescu, Ioana Fagarasan, Marian Romeo Catana./ Capitolul Rolul si locul casei inteligente electric in conceptul de dispecerizare a consumului	pp.106-108, Matrix Rom, ISBN 978-606-25-0025-2	2013
18	Iliescu S.St., Făgărășan Ioana	Automatizari si Instrumentatie, Horia Mihai Motit, Eugen Diaconescu, Ioana Fagarasan, Marian Romeo Catana./ Capitolul Conducerea proceselor energetice. Concepte si implementari	pp.88-90, Matrix Rom, ISBN 978-606-25-0025-2	2013
19	Calin Soare, Sergiu Stelian Iliescu, Ioana Fagarasan , Nicoleta Arghira, Iulia Dumitru	Sisteme neliniare si esantionate	ConsPress Bucuresti, 96 pagini, 2013, ISBN 978-973-100-281-1 (editura acreditata- cod CNCISIS: 252)	2013
20	Daniela HOSSU, Ioana FĂGĂRĂȘAN , Iulia DUMITRU, Nicoleta ARGHIRA, Sergiu Stelian ILIESCU	GHID PRACTIC DE PROIECTARE ȘI IMPLEMENTARE A APLICAȚIILOR SCADA	ConsPress Bucuresti, 103 pagini, 2013, ISBN 978-973-100-226-2 (editura acreditata- cod CNCISIS: 252)	2013
21	Sergiu Stelian Iliescu, Ioana Fagarasan , Nicoleta Arghira, Iulia Dumitru	Analiza si proiectarea Sistemelor de reglare automata	ConsPress Bucuresti, 44 pagini, 2013, ISBN 978-973-100-271-2 (editura acreditata- cod CNCISIS: 252)	2013
22	Făgărășan I. , Grigore Stamatescu, Dumitru Iulia, Arghira Nicoleta,	Actionari electrice si electronice ale motorului electric	ConsPress Bucuresti, 88 pagini, 2012, ISBN 978-973-100-224-8. (editura acreditata- cod CNCISIS: 252)	2012
23	Făgărășan I. , Grigore Stamatescu, Dumitru Iulia, Arghira Nicoleta,	Automatizari. Scheme de comanda. Circuite Logice Secventiale. Panou Didactic LOGO,	ConsPress Bucuresti, 66 pagini, 2012, ISBN 978-973-100-226-2 (editura acreditata- cod CNCISIS: 252)	2012
24	MIHOC D., S.St. ILIESCU, FĂGĂRĂȘAN Ioana , CALOTĂ Onița., MATEI G., ȚĂRANU Gh., O. STAN	Protectii prin relee clasice si numerice,	Ed. PRINTECH, București, ISBN 978-606-521-394-4, 120 pg., 2009 (editura acreditata- cod CNCISIS: 54)	2009
25	ROBESCU, D., S.St. ILIESCU, I. CATANA, FĂGĂRĂȘAN Ioana , s.a.	Controlul automat al proceselor de epurare a apelor uzate	Ed. Tehnica, Bucuresti, 2008, ISBN 978-973-31-2335-4, 388 pagini, 2008 (editura acreditata- cod CNCISIS: 166)	2008
26	MIHOC D., ILIESCU S.St., FĂGĂRĂȘAN Ioana , ȚĂRANU Gh., MATEI G.,	Automatizări electro- și termoenergetice,	Ed. PRINTECH, București, ISBN: 978-973-718-936-3, 180 pg., 2008; (editura acreditata- cod CNCISIS: 54)	2008
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28	ILIESCU S.St., FĂGĂRĂȘAN Ioana , PUPĂZĂ D.,	Analiza de sistem în informatica industrială,	Editura AGIR, București, ISBN 973-720-091-8, 142 pg., 2006 (editura acreditata- cod CNCISIS:140);	2006
29	MIHOC D., ILIESCU S.St., FĂGĂRĂȘAN Ioana , ȚĂRANU Gh.,	Conducerea și automatizarea instalațiilor energetice,	Editura Printech, București, ISBN (10) 973-718-497-1, ISBN (13) 978-973-718-497-9 , 110 pg., 2006(editura acreditata- cod CNCISIS: 54);	2006

30	SOARE C., ILIESCU S.St., TUDOR V., FĂGĂRĂȘAN Ioana , DRAGOMIR Otilia, DRAGOMIR F. -	„Proiectarea asistată de calculator în Matlab și Simulink – Conducerea avansată a proceselor”,	Editura AGIR, București, ISBN 973-720-092-6, 228 pg., 2006 (editura acreditata- cod CNCSIS:140);	2006
31	SOARE C., ILIESCU S.St., FĂGĂRĂȘAN Ioana , TUDOR V., FAIDA NICULESCU Oana -	„Proiectarea asistată de calculator în Matlab și Simulink – Modelarea si simularea proceselor”	Editura AGIR, București, ISBN 973-720-102-7, 191 pg., 2006 (editura acreditata- cod CNCSIS:140);	2006
32	ILIESCU S.St., SOARE C., FĂGĂRĂȘAN Ioana , Arsene Patricia, FAIDA NICULESCU Oana,	Analiza și sinteza sistemelor automate. Aplicații utilizând Matlab/Simulink,	Ed.Printech, Bucuresti, ISBN 973-718-209-X, 107 pg., 2005 (editura acreditata- cod CNCSIS: 54);	2005
33	ILIESCU S.St., FĂGĂRĂȘAN Ioana –	Automatizări în centrale termoelectrice,	Ed. Printech, București, ISBN 973-718-236-7, 173 pg., 2005;	2005
34	FĂGĂRĂȘAN Ioana	Metode de detectare a defectelor utilizand modele analitice,	Ed. Printech, Bucuresti, ISBN 973-718-144-1, 109 pg., 2004(editura acreditata- cod CNCSIS: 54);	2004
35	SOARE C., FĂGĂRĂȘAN Ioana , Arsene Patricia, ILIESCU S.St.,	Teoria reglării automate. Aplicații,	Ed.Printech, Bucuresti, ISBN 973-652-480-9, 129 pg., 2001 (editura acreditata- cod CNCSIS: 54).	2001

• **Articole in reviste si volume proceedings de conferinte (indexate ISI WoS)**

Articole in reviste (indexate ISI WoS)

Nr crt	Autori	Titlul articol	Publicatie	Anul	Factor de impact
1.	STAMATESCU I., ARGIRA N., FĂGĂRĂȘAN I. , STAMATESCU G., ILIESCU S. St., CALOFIR V.	Decision Support System for a Low Voltage Renewable Energy System	Energies, Vol. 10, pp.118, 2017. (revista indexata ISI: WOS:000392422500117) Q2 Energy and Fuel	2017	2.676
2.	HOSSU, D., I. FĂGĂRĂȘAN , S.ST. ILIESCU, A. HOSSU	Evolved Fuzzy Control System for a Steam Generator,	International Journal of Computers, Communications and Control, ISSN 1841-9836, E- ISSN 1841-9836, Vol. V (2010), No.2, pp 179-192, (revista indexata ISI: WOS:000275741400005, SCOPUS)	2010	1.29
3.	Bucur, I.I.; Făgărășan I. , Popescu, C, George Culea, Alexandru E. Susu	Delay Optimum And Area Optimal Mapping Of k-LUT Based FPGA Circuits,	Control Engineering and Applied Informatics, Volume 11, Issue 1, pp. 43-48, ISBN 978-960- 474-113-7, 2009 . (revista indexata ISI : WOS:000268886200006)	2009	0.698
4.	I. FĂGĂRĂȘAN , S. St. ILIESCU, D. HOSSU,	A comparation of model and signal based fault detection methods,	Proceedings of the Romanian Academy -series A, Volume 9, Number 3 September - December 2008, Editura Academiei Romane, ISSN: 1454 – 8267, pg. 243-251 (revista indexata ISI: WOS:000261604300011, SCOPUS) Q2 MULTIDISCIPLINARY SCIENCES	2008	1.752
5.	FĂGĂRĂȘAN I. , PLOIX, S., GENTIL, S.	Causal Fault Detection and Isolation Based on Set-membership Approach,	Automatica, Volume 40, Issue 12, December 2004, ISSN 0005-1098, pp. 2099-2110, 2004.(revista indexata ISI: WOS:000224816300009 - 35 citari, indexat in baze de date internationale – SCOPUS - 57 citari) - Q1 AUTOMATION & CONTROL SYSTEMS	2004	6.126

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1	Nichiforov C., Stamatescu G., Stamatescu I., Calofir V., Fagarasan I. , Iliescu S.St.	Deep Learning Techniques for Load Forecasting in Large Commercial Buildings,	22nd International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, 2018, pp. 492-497, DOI 10.1109/ICSTCC.2018.8540768 (proceeding indexat ISI: WOS:000465109800081)	2018
2	Calofir, V.; Fagarasan, I. ; Iliescu, S. St.; Stamatescu, I.; Arghira, N.; Stamatescu, G.; Calofir, E.,	Implementation of e-Learning Concept for Industrial Control System. A Case Study,	Proceedings of 14th International Scientific Conference on eLearning and Software for Education - eLearning Challenges and New Horizons Location: Bucharest, ROMANIA Date: APR 19-20, 2018, Pages: 27-33 (proceeding indexat ISI: WOS:000467471000003)	2018
3	Stamatescu, I; Ploix, S; Fagarasan, I. ; Stamatescu, G	Data Center Server Energy Consumption Optimization Algorithm	2018 26TH MEDITERRANEAN CONFERENCE ON CONTROL AND AUTOMATION (MED) Book Series: Mediterranean Conference on Control and Automation Pages: 813-818, 2018, Zadar, CROATIA, WOS:000454718500134, ISBN:978-1-5386-7890-9, ISSN: 2325-369X (proceeding indexat ISI: WOS:000454718500134)	2018
4	Nichiforov Cristina, Stamatescu Iulia, Fagarasan Ioana , Stamatescu Grigore	Energy Consumption Forecasting Using ARIMA and Neural Network Models	2017 5TH INTERNATIONAL SYMPOSIUM ON ELECTRICAL AND ELECTRONICS ENGINEERING (ISEEE) Book Series: International Symposium on Electrical and Electronics Engineering, ISBN:978-1-5386-2059-5 ISSN: 2378-3907	2017
5	Arghira Nicoleta, Stamatescu Iulia, Fagarasan Ioana , Stamatescu Grigore	Demand Dispatch Framework for Smart Distribution Grids	PROCEEDINGS OF THE 2017 12TH IEEE CONFERENCE ON INDUSTRIAL ELECTRONICS AND APPLICATIONS (ICIEA) Book Series: IEEE Conference on Industrial Electronics and Applications Pages: 48-52; ISBN:978-1-5090-6161-7; ISSN: 2156-2318	2017
6	Stamatescu, Grigore; Stamatescu, Iulia; Arghira, Nicoleta, Fagarasan Ioana	Pervasive System Architecture for Optimal HVAC Control in Smart Buildings	PROCEEDINGS OF THE 2017 12TH IEEE CONFERENCE ON INDUSTRIAL ELECTRONICS AND APPLICATIONS (ICIEA) Book Series: IEEE Conference on Industrial Electronics and Applications , Pages: 59-63; ISBN:978-1-5090-6161-7; ISSN: 2156-2318	2017
7	Marinescu Tiberiu, Arghira Nicoleta, Hossu Daniela, Fagarasan Ioana , Stamatescu Iulia, Stamatescu Grigore, Calofir Vasile, Iliescu Sergiu Stelian.	Advanced control strategies for irrigation systems.	The 9th IEEE International Conference on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications (IDAACS). Vol. 2, pp.843-848, 2017	2017

8	Stamatescu, Grigore; Stamatescu, Iulia; Arghira, Nicoleta, Dragana, Cristian, Fagarasan, Ioana	Data-driven Methods for Smart Building AHU Subsystem Modelling	PROCEEDINGS OF THE 2017 9TH IEEE INTERNATIONAL CONFERENCE ON INTELLIGENT DATA ACQUISITION AND ADVANCED COMPUTING SYSTEMS: TECHNOLOGY AND APPLICATIONS (IDAACS), VOL 2, Pages: 617-621 Published: 2017	2017
9	Stamatescu Iulia, Stamatescu Grigore, Fagarasan Ioana , Arghira Nicoleta, Calofir Vasile, Iliescu Sergiu Stelian.	ASID: Advanced system for process control towards intelligent specialization in the power engineering field.	The 9th IEEE International Conference on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications (IDAACS). Vol. 2, pp. 475-480, 2017, ISBN:978-1-5386-0697-1	2017
10	Ioana Fagarasan , Iulia Stamatescu, Cristina Nichiforov, Grigore Stamatescu, Nicoleta Arghira, Sergiu Stelian Iliescu.	Laboratory Scale Wind Energy Harvester.	The 9th IEEE International Conference on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications (IDAACS), 1. 2, pp. 481-485, 2017, Bucharest, Romania.	2017
11	Ioana Fagarasan , Iulia Stamatescu, Nicoleta Arghira, Daniela Hossu, Andrei Hossu, Sergiu Stelian Iliescu.	Control Techniques and Strategies for Microgrids: Towards an Intelligent Control.	The 21th International Conference on Control Systems and Computer Science (CSCS), pp. 630-635, 2017, Bucharest, Romania	2017
12	Ionescu, M.A.; Iliescu, S.S.; Arghira, N.; Fagarasan, I.	PV module behavior model for different external factors conditions	PROCEEDING OF 2016 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR) Location: Cluj Napoca, ROMANIA Date: MAY 19-21, 2016 Pages: 263-268 Published: 2016 ISBN:978-1- 4673-8690-6 ISSN: 1844-7872	2016
13	Dinu, E.D.; Ilisiu, D.; Fagarasan, I. ; Iliescu, S.St., Arghira, N.;	Voltage - Reactive Power Control in Renewables Power Plants Technical Requirements applied in the Romanian Power Grid	PROCEEDING OF 2016 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR) Location: Cluj Napoca, ROMANIA Date: MAY 19-21, 2016 Pages: 275-279 Published: 2016 ISBN:978-1- 4673-8690-6 ISSN: 1844-7872	2016
14	Stamatescu, I.; Stamatescu, G.; Arghira, N.; Calofir, V.; Fagarasan, I.; Iliescu, S.St.	DEVELOPMENT AND IMPACT ASSESSMENT OF CLOUD-BASED INDUSTRIAL AUTOMATION TECHNOLOGY CURRICULA	12th International Scientific Conference on eLearning and Software for Education (eLSE) Location: Bucharest, ROMANIA Date: APR 21- 22, 2016 ELEARNING VISION 2020!, VOL III Book Series: eLearning and Software for Education Pages: 253-259 Published: 2016 ISSN: 2066- 026X	2016
15	Fagarasan, I.; Arghira, N.; Calofir, V.; Iliescu, S.St., Stamatescu, I.; Stamatescu, G.;	VIRTUAL LABS FOR POWER SYSTEM STUDIES	12th International Scientific Conference on eLearning and Software for Education (eLSE) Location: Bucharest, ROMANIA Date: APR 21- 22, 2016 ELEARNING VISION 2020!, VOL III Book Series: eLearning and Software for Education Pages: 266-271 Published: 2016 , ISSN: 2066- 026X	2016
16	Stamatescu, I.; Stamatescu, G.; Calofir, V.; Fagarasan, I.; Iliescu, S.St.,	Predictive Control for Photovoltaic Tracking Optimization	Int IEEE Aegean Conference on Electrical Machines and Power Electronics (ACEMP) / Int Conference on Optimization of Electrical and Electronic Equipment (OPTIM) / Int Symposium on Advanced Electromechanical Motion Systems (ELECTROMOTION) Location: Side, TURKEY Date: SEP 02-04, 2015 Pages: 531-537 , ISBN:978-1-4673-7239-8	2015

17	STAMATESCU G.; STAMATESCU I.; ARGHIRA N.; FĂGĂRĂȘAN,I. , S.St. ILIESCU	Embedded Networked Monitoring and Control for Renewable Energy Storage Systems	12th IEEE International Conference on Development and Application Systems (DAS) Location: Suceava, ROMANIA Pages: 1-6 Published: 2014	2014
18	Stamatescu, I., Stamatescu, G., Arghira, N., Făgărășan, I. , Iliescu, S.S.	Fuzzy decision support system for solar tracking optimization	2014 International Conference on Development and Application Systems, DAS 2014 - Conference Proceedings 6842420, pp. 16-20	2014
19	STAMATESCU G.; STAMATESCU I.; ARGHIRA N.; FĂGĂRĂȘAN,I. , S.St. ILIESCU	INNOVATIVE SCADA TEST BED INFRASTRUCTURE FOR ENGINEERING EDUCATION AND RESEARCH	10th International Scientific Conference on eLearning and Software for Education, Bucharest, ROMANIA, 2014, LET'S BUILD THE FUTURE THROUGH LEARNING INNOVATION!, VOL. 2 Book Series: eLearning and Software for Education Pages: 464-471 Published: 2014	2014
20	Stamatescu, I.; Fagarasan, I. ; Stamatescu, G., Arghira N., Iliescu S.St.	Design and Implementation of a Solar-Tracking Algorithm	24TH DAAAM INTERNATIONAL SYMPOSIUM ON INTELLIGENT MANUFACTURING AND AUTOMATION, 2013 Book Series: Procedia Engineering Volume: 69 Pages: 500-507 Published: 20142	2013
21	AM Vladu, I Fagarasan,	On prediction of defect rates	Proceedings of International Conference on Automation Quality and Testing Robotics (AQTR), 2012 IEEE Cluj-Napoca, ISBN: 978- 1-4673-0701-7; INSPEC art. no. 6237703, pp. 201-205. Accession Number: 12853531; DOI : 10.1109/AQTR.2012.6237703 (proceeding indexat SCOPUS 91781 si INSPEC)	2012
22	Iulia Dumitru, Nicoleta Arghira, Ioana Fagarasan, Sergiu Iliescu,	Process Control Simulator using Programmable Controller Technology,	Proceedings of the 2010 IEEE International Conference on Automation, Quality and Testing, Robotics 17th edition of , vol. 1, pp 89-93 , ISBN 978-1-4244-6722-8/10, DOI: 10.1109/AQTR.2010.5520909, 28-30 May 2010, Cluj, Romania (proceeding indexat SCOPUS 82014).	2010
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34	FĂGĂRĂȘAN,I. , S.St. ILIESCU,	Fault Detection and Diagnosis of Technical Systems,	Proceedings of the 9th WSEAS International Conference on Automation and Information (ICAI' 08), ISBN 978-960-6766-77-0; ISSN 1790-5117, pp. 446-453, Bucharest, 2008. (proceeding indexat ISI: WOS:000258497000074)	2008

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2	Costianu, D.R, Arghira, N., Făgărășan, I., Iliescu, S.S.,	A survey on power system protection in smart grids,	Scientific Bulletin, University POLITEHNICA Bucharest, Series C: Electrical Engineering, vol. 74, nr. 1, ISSN 1454234x, pp. 139-146, 2012	2012
2	Nicoleta ARGHIRA Daniela HOSSU, Ioana FĂGĂRĂȘAN, Sergiu	Modern SCADA philosophy in power system operation – a	Scientific Bulletin, University Politehnica Bucharest, Series C: Electrical Engineering, ISSN 1454-234X, vol. 73, nr. 2, pg 153-166, 2011	2011

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3	Ioana FĂGĂRĂȘAN, Sergiu St. ILIESCU, Iulia Dumitru,	Process Simulator using PLC Technology,	Scientific Bulletin, University Politehnica Bucharest, Series C: Electrical Engineering, ISSN 1454-234X, vol. 72, nr. 2, pg 17-26, 2010	2010
4	ALABA, O.B., Ioana FĂGĂRĂȘAN , R. DOBRESCU, S.St. ILIESCU,	System Analisis for E- Learning Grids,	Scientific Bulletin, University Politehnica Bucharest, Series C: Electrical Engineering, ISSN 1454-234X, vol. 71, nr. 3, pg. 71-79, 2009	2009
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6	COSTIANU, D., Nicoleta ARGHIRA, Ioana FĂGĂRĂȘAN , S. St. ILIESCU	Power Plants Automation and Control Using PLC Technology,	Journal of Information Systems and Operations Managment Vol.3, No.1., Iulie 2009, Editura Universitara, Bucuresti, ISSN 1843-4711, pp.532-539, 2009	2009
7	COSTIANU, D., Nicoleta ARGHIRA, Ioana FĂGĂRĂȘAN , S. St. ILIESCU -	Standards in Control and Protection Tehnology for Electric Power Systems,	Journal of Information Systems and Operations Managment Vol.3, No.1., Iulie 2009, Editura Universitara, Bucuresti, ISSN 1843-4711, pp.416-427, 2009	2009
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15	Bucur,I., Ioana FĂGĂRĂȘAN , C. Popescu, C.A. Boiangiu, G. Culea –	Optimizing Large Combinational Networks for K-LUT Based FPGA Mapping,	Journal of Information Systems and Operations Managment, No.2, July 2008, Editura Universitara, Bucuresti, ISSN 1843-4711, pp.154-165, 2008	2008
16	LESECQ, S., S. GENTIL, I. FĂGĂRĂȘAN	Fault Isolation Based on Wavelets Transform,	Control Engineering and Applied Informatics, CEAI, Vol. 9, ISSN 1454-8658, pp. 51-58, 2007	2007
17	FĂGĂRĂȘAN Ioana , ARSENE Patricia, ILIESCU S.St. -	Fault detection and isolation of sensors faults using model	Control Engineering and Applied Informatics, CEAI, Vol. 4, ISSN 1454-8658, pp. 37-46, 2002	2002

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19	ILIESCU S.St., SOARE C., ARSENE Patricia, FĂGĂRĂȘAN Ioana -	The pursuit problem of control systems with relay action,	Scientific Bulletin, University POLITEHNICA Bucharest, Series C: Electrical Engineering, vol 61, nr. 3-4, ISSN 1454-234X, pp. 319-327, 1999	1999

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2	Stamatescu G., Stamatescu I., Arghira N., Calofir V., Faragarasan I.	Building Cyber- Physical Systems Energy Systems	5th International workshop on Cyber-Physical Systems (IWoCPS), Nr. pagini 4, BDI: arXiv, https://arxiv.org/abs/1605.06903	2016
3	Stamatescu, I., Stamatescu, G., Arghira, N., Făgărășan, I. , Iliescu, S.S.	Fuzzy decision support system for solar tracking optimization	2014 International Conference on Development and Application Systems, DAS 2014 - Conference Proceedings 6842420, pp. 16-20; https://ieeexplore.ieee.org/document/6842420	2014
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8	Iulia Dumitru, Ioana Fagarasan , Sergiu Iliescu , Hadj Said Yanis, Stephane Ploix,	Increasing energy efficiency in data centers using energy management,	2011 IEEE/ACM International Conference on Green Computing and Communications, GreenCom 2011; Chengdu, Sichuan, China; 4 - 5 August 2011; art. no. 6061320, pp. 159-165, ISBN: 978-076954466-3, DOI: 10.1109/GreenCom.2011.53, 2011 (proceeding indexat SCOPUS 87339); https://ieeexplore.ieee.org/document/6061320	2011
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10	Iulia Dumitru, Grigore Stamatescu, Ioana Fagarasan , Segiu Stelian Iliescu,	Dynamic Management Techniques for Increasing Energy Efficiency within a Data Center,	UNITE Symposium, 27-28 June, Bucharest, 2011, Ed Printech, ISSN:2247-6040 , pg. 129-133, 2011 , https://arxiv.org/abs/1305.6203	2011
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18	Iulia Dumitru, Ioana Fagarasan , Sergiu Iliescu,	Process Control Simulator for Components of a Complex Power System,	Proceedings on the IFAC Large Scale Systems: Theory and Application, ISBN: 978-2-915-913-26-2, pp 430-434, 11-14 July, Lille, 2010	2010
19	Iulia Dumitru, Nicoleta Arghira, Ioana Fagarasan , Sergiu Iliescu,	A fuzzy PLC Control System for a Servomechanism,	Proceedings on the IFAC Workshop on Intelligent Control Systems WICS 2010, pg. 115-120, ISSN: 14746670 ISBN: 978-390266189-0 29 september-2 October, Sinaia, 2010 (proceeding indexat SCOPUS 86089)	2010

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27	Fagarasan, I., Taleb, S., Lesecq, S., Gentil, S., Stuecher, R.	Signal-Based Diagnosis Of Torsional Vibration Of A Main Drive Of A Hot Rolling Mill,	11th IFAC Symposium on Automation in Mining, Mineral and Metal Processing, MMM'2004, Nancy, France, pg. 6, 2004.	2004
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b) Lista granturilor si contractelor de cercetare:

- Granturi si contracte internationale (mentionati la fiecare pozitie: director/membru)

Nr.crt	Grant	Pozitia
1.	(2004-2002) Proiect de cercetare european finanțat de Comisia Europeană în FP5, EU-IST-2000-30009/ (2000-2004) MAGIC, Multi Agents Based Diagnostic Data Aquisition and Management in Complex Systems, 2002-2004, Consorțiu format din : Universitatea Duisburg-Essen (Germania), Universitatea Karlsruhe (Germania), Laboratorul de Automatică din Grenoble (Franța), SMS Demag AG (Germania) și SATE srl (Italia)	Membru
2.	(2001-1997) Contract de cooperare internațională MCT 883/96, B1/1997 - Modelarea asistată de calculator a unor procese industriale, continuare tema A7/1998, A9/1999, A7/2000, A10/2001, Director program UPB Prof. dr. ing. Sergiu Stelian Iliescu, Director program TUD: Prof.dr.ing. Rolf Isermann.	Membru

• Granturi si contracte nationale (mentionati la fiecare pozitie: director/membru)

Nr.crt	Grant	Pozitia
3.	(2016-2018) Contract UEFISCDI nr: 72BG/2016, PN-III-P2-2.1-BG-2016-0234, Sistem Avansat de conducere a proceselor pentru Specializare Inteligenta in Domeniul energetic (ASID)	Director proiect
4.	(2009-2007) Contract de cercetare AMCSIT 2007, PNCDI II, Programul 5, 85/25.09.2007 : Inovare, Sisteme modulare de simulare a conducerii automate a unor procese industriale pentru dotarea platformelor educationale multifunctionale, Coordonator ASTECH, Director : S. TRUSCA, Partener : UPB,	Director proiect
5.	(2006-2005) Contract de cercetare CNCSIS, AT56 / 27692/2005; 139/2006, Sistem integrat de predare, învățare și testare asistate de calculator în detecția și diagnoza defectelor în instalațiile industriale,	Director proiect
6.	(2008-2006) Contract de cercetare MEC-UEFISCSU 15031/07.04.2006, CEEX - MODUL 2; Cod proiect 43, Metode de control tolerant la defect implementabile in sisteme distribuite,	Director proiect
7.	(2017) PN-III-P2-2.1-CI-2017-0376 Titlu proiect: Sistem Inteligent de Incarcare pentru Vehicule Electrice (IEVSE)	Membru
8.	(2017) PN-III-P2-2.1-CI-2017-0484 Titlu proiect: Gateway multi-protocol pentru automatizare deschisa in cladiri inteligente (OPENBMS)	Membru
9.	(2016-2018) Contract UEFISCDI nr: 82BG/2016, PN-III-P2-2.1-BG-2016-0387 Sistem de Automatizare si Telemetrie Eficient energetic pentru managementul Resurselor in Agricultura de precizie (SA-TERRA)	Membru
10.	(2016-2018) PNCDI III - PTE-INOVIATION-Solutie pentru integrarea eficienta a centralelor eoliene si fotovoltaice in sistemul energetic national,	Membru
11.	(2008-2006) Contract de cercetare AMCSIT 311/13.09.2006, CEEX - MODUL 1 ; Urmărirea comportării construcțiilor hidrotehnice din România cu ajutorul unei platforme tehnologice informatice naționale,	Membru
12.	(2007-2006) Contract de cercetare AMCSIT 174/20.06.2006, CEEX - MODUL 1, Cercetări teoretice și experimentale asupra sistemelor expert de exploatare optimă a proceselor tehnologice de epurare a apelor uzate din stațiile de epurare orășenești și industriale;	Membru
13.	(2007-2005) Contract de cercetare MEC-UEFISCSU 2969/11.10.2005, CEEX - MODUL 2; Cod proiect 77, Sistem de control evoluat integrabil intr-un sistem distribuit de automatizare a proceselor energetice	Membru
14.	(2004-2002) Contract de cercetare CNCSU nr 33380/2002-2004, cod CNCSIS 492, tema nr.12, 1/2002: Sisteme de detectie si localizare a defectelor pentru procese industriale,	Membru
15.	(2002-2001) Contract de cercetare CNCSU nr.37124/2001, tema nr.639 "Sisteme de integrate de comanda și măsură cu microcontrolere pentru procese electrice	Membru
16.	(2001-2000) Contract de cercetare MEC nr.538/2000 prin AMCSIT, "Sistem de programe de identificare automata personala utilizand tehnologii avansate pe baza de cartele	Membru

