

## Associate Professor Grigore Stamatescu, Ph.D.

### List of scientific publications (2000-2018)

#### • Monographs, Book chapters (international publications)

1. Sgarciu V., Stamatescu G., Distance Process Monitoring using LabVIEW Environment, in LabVIEW – Modeling, Programming and Simulations (Ed. Riccardo de Asmundis), InTech, 2011, pp. 67–88, ISBN 978-953-307-521-1.
2. Popescu D., Stamatescu G., Strutu M., Maciuca A., Design and Implementation of Wireless Sensor Network based on Multilevel Femtocells for Home Monitoring, in Some Advances in Intelligent Robotics and Collaborative Automation (Eds. Y. Kondratenko, R. Duro), River Publishers, 2015, pp.235-255, ISBN 978-87-93237-04-9. WOS:000364308800012. Capitol / 358 biblioteci WorldCat. Link: [https://www.worldcat.org/title/advances-in-intelligent-robotics-and-collaborative-automation/oclc/957125083&referer=brief\\_results](https://www.worldcat.org/title/advances-in-intelligent-robotics-and-collaborative-automation/oclc/957125083&referer=brief_results) WOS Article Type: Article, Book Chapter
3. Stamatescu G., Popescu D., Dobrescu R., Framework for Cognitive Radio Deployment in Large Scale WSN-UAV Surveillance in Pricop E., Stamatescu G. (co-Editors), Recent Advances in Systems Safety and Security, Springer, Iunie 2016, pp. 41-56, ISBN 978-3-319-32523-1. Capitol / 206 biblioteci WorldCat. Link : [https://link.springer.com/chapter/10.1007/978-3-319-32525-5\\_3](https://link.springer.com/chapter/10.1007/978-3-319-32525-5_3)
4. Halcu I., Stamatescu G., Stamatescu I., Sgarciu V., IPv6 Sensor Networks Modeling for Security and Communication Evaluation in Pricop E., Stamatescu G. (co-Editors), Recent Advances in Systems Safety and Security, Springer, Iunie 2016, pp. 241-260, ISBN 978-3-319-32523-1. Capitol / 206 biblioteci WorldCat. Link: [https://link.springer.com/chapter/10.1007/978-3-319-32525-5\\_14](https://link.springer.com/chapter/10.1007/978-3-319-32525-5_14)

#### • Monographs, Book chapters (national publications)

1. Popescu D., Stamatescu G., Strutu M., Maciuca A., Aplicatii ale retelelor de senzori multi-nivel in monitorizarea ambientală, POLITEHNICA PRESS, ISBN 978-606-515-503-9, Bucuresti, 2015, Nr. pagini 213, cod CNCISIS editura: 19. <http://www.old.upb.ro/editura-upb/templates/aparitii2013.html>
2. Dragomir F., Stamatescu G., Fagarasan I., Modelarea si simularea generatoarelor fotovoltaice (Capitolul 4) in Modelarea Şi Simularea Reţelelor De Joasă Tensiune Cu Producere Din Surse Distribuite De Energiei, Coordonatori: Florin Dragomir, Sergiu Stelian Iliescu, MatrixROM, 2013, ISBN 978-973-100-275-0, Bucuresti, Romania, pp. 69-95, cod CNCISIS editura: 39.
3. Dragomir F., Stamatescu G., Dragomir O., Stamatescu I., Arghira N., Modelarea si simularea bateriilor de acumuloare (Capitolul 6) in Modelarea Şi Simularea Reţelelor De Joasă Tensiune Cu Producere Din Surse Distribuite De Energiei, Coordonatori: Florin Dragomir, Sergiu Stelian Iliescu, MatrixROM, 2013, ISBN 978-973-100-275-0, Bucuresti, Romania, pp.118-161, cod CNCISIS editura: 39.
4. Stamatescu I., Stamatescu G., Tudor V., Algoritmi genetici (Capitolul 6) in Tehnici de Inteligenta Artificiala folosite in managementul energiei electrice, Coordonatori: Otilia Elena Dragomir, Sergiu Stelian Iliescu, MatrixROM, 2015, ISBN 978-606-23-0506-2, Bucuresti, Romania, pp.79-95, cod CNCISIS editura: 39.
5. Dumitru I., Stamatescu G., Arghira N., Fagarasan I., Iliescu S. St., Calofir V., Modelarea şi monitorizarea sistemului de răcire pentru un centru de date in Automatizari si Instrumentatie, Horia Mihai Motit, Eugen Diaconescu, Ioana Fagarasan, Marian Romeo Catana, Matrix Rom, 2013, pp.8-10, ISBN 978-606-25-0025-2, cod CNCISIS editura: 39.
6. Iliescu S. St., Fagarasan I., Dumitru I., Arghira N., Stamatescu G., Sisteme modulare de simulare a conducerii automate a unor procese industriale pentru dotarea platformelor educationale multifunctionale in Automatizari si Instrumentatie, Horia Mihai Motit, Eugen Diaconescu, Ioana Fagarasan, Marian Romeo Catana, Matrix Rom, 2013, pp.11-13, ISBN 978-606-25-0025-2, cod CNCISIS editura: 39.
7. Iulia Stamatescu, Grigore Stamatescu, Ioana Fagarasan, Nicoleta Arghira, Vasile Calofir, Cap 8.3 - Studii de caz - Sistem fuzzy de suport al deciziei pentru optimizarea performantelor sistemelor fotovoltaice cu urmarire, Carte Tehnici de inteligenta artificiala folosite in managementul energiei

electrice, Coordonatori Sergiu Stelian Iliescu, Otilia Elena Dragomir, Editura Printech, ISBN 978-606-23-0506-2, Bucuresti, Romania, 2015, cod CNCSIS editura: 54.

8. 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 Modelarea din punct de vedere energetic si monitorizarea sistemului de racire pentru un centru de date. pp. 8-10. Ed. MatrixRom, ISBN 978-606-23-0506-2, cod CNCSIS editura: 39.

### • **Articles in journals and conference proceedings (indexed ISI)**

1. "Popescu D., Dragana C., Stoican F., Ichim L., Stamatescu G., A Collaborative UAV-WSN Network for Monitoring Large Areas, Sensors 2018, 18, 4202, 25 pages. WOS:000454817100121 Q1 - INSTRUMENTS & INSTRUMENTATION. Publicat Decembrie 2018 - JCR2017. Link: [http://apps.webofknowledge.com/full\\_record.do?product=WOS&search\\_mode=GeneralSearch&qid=7&SID=E51p3qk7nEQb72gM9Ji&page=1&doc=3](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=7&SID=E51p3qk7nEQb72gM9Ji&page=1&doc=3)
2. Nichiforov C., Stamatescu G., Stamatescu I., Calofir V., Fagarasan I., Iliescu S. St., Deep Learning Techniques for Load Forecasting in Large Commercial Buildings, 2018 22nd International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, 2018, pp. 492-497. WOS:000465109800081. Link: [http://apps.webofknowledge.com/full\\_record.do?product=WOS&search\\_mode=GeneralSearch&qid=7&SID=E51p3qk7nEQb72gM9Ji&page=1&doc=9](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=7&SID=E51p3qk7nEQb72gM9Ji&page=1&doc=9)
3. Mihai, Viorel; Hanganu, Cristina Elena; Stamatescu, Grigore; Popescu Dan, WSN and Fog Computing Integration for Intelligent Data Processing, Conference: 10th International Conference on Electronics, Computers and Artificial Intelligence (ECAI) Location: Iasi, ROMANIA Date: JUN 28-30, 2018 PROCEEDINGS OF THE 2018 10TH INTERNATIONAL CONFERENCE ON ELECTRONICS, COMPUTERS AND ARTIFICIAL INTELLIGENCE (ECAI) 4 pages Published: 2018 WOS:000467734100134 Link: [http://apps.webofknowledge.com/full\\_record.do?product=WOS&search\\_mode=GeneralSearch&qid=7&SID=E51p3qk7nEQb72gM9Ji&page=1&doc=8](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=7&SID=E51p3qk7nEQb72gM9Ji&page=1&doc=8)
4. Stamatescu I., Ploix S., Fagarasan I., Stamatescu G., Data Center Server Energy Consumption Optimization Algorithm, 26th Mediterranean Conference on Control and Automation, MED 2018, 19-22 June, Zadar, Croatia, pp. 813-818. WOS:000454718500134. Link: [http://apps.webofknowledge.com/full\\_record.do?product=WOS&search\\_mode=GeneralSearch&qid=7&SID=E51p3qk7nEQb72gM9Ji&page=1&doc=10](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=7&SID=E51p3qk7nEQb72gM9Ji&page=1&doc=10)
5. "Implementation of e-Learning Concept for Industrial Control System. A Case Study, Calofir, Vasile; Fagarasan, Ioana; Iliescu, Sergiu Stelian; Stamatescu Iulia; Arghira Nicoleta; Stamatescu Grigore; Calofir Emil, Conference: 14th International Scientific Conference on eLearning and Software for Education - eLearning Challenges and New Horizons Location: Bucharest, ROMANIA Date: APR 19-20, 2018 PROCEEDINGS OF THE 14TH INTERNATIONAL SCIENTIFIC CONFERENCE EARNING AND SOFTWARE FOR EDUCATION: EARNING CHALLENGES AND NEW HORIZONS, VOL 3 Pages: 27-33 Published: 2018 WOS:000467471000003 [http://apps.webofknowledge.com/full\\_record.do?product=WOS&search\\_mode=GeneralSearch&qid=7&SID=E51p3qk7nEQb72gM9Ji&page=1&doc=7](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=7&SID=E51p3qk7nEQb72gM9Ji&page=1&doc=7)
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7. Mihai V., Dragana C., Stamatescu G., Popescu D., Ichim L., Wireless Sensor Network Architecture based on Fog Computing, Proc. of the 5th International Conference on Control, Decision and Information Technologies, CODIT 2018, 10-13 April, Thessaloniki, Greece, pp. 743 - 747. WOS:000468641000124. Link: [http://apps.webofknowledge.com/full\\_record.do?product=WOS&search\\_mode=GeneralSearch&qid=7&SID=E51p3qk7nEQb72gM9Ji&page=1&doc=5](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=7&SID=E51p3qk7nEQb72gM9Ji&page=1&doc=5)
8. Chitu, Claudia; Stamatescu, Grigore; Sgarciu, Valentin, Scalable architectures for stream analytics and data predictions dedicated to smart spaces, 4th ACM Conference on Systems for Energy-Efficient Built Environments (BuildSys) Location: Delft, NL Date: NOV 8-9, 2017, 2 pages. WOS:000463798000046. Link:

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10. Cristian Dragana ; Grigore Stamatescu ; Loretta Ichim ; Dan Popescu, Interlinking unmanned aerial vehicles with wireless sensor networks for improved large area monitoring, Control, Decision and Information Technologies (CoDIT), 2017 4th International Conference on, Barcelona, pp. 359 - 364. WOS:000450826500062. Link: [http://apps.webofknowledge.com/full\\_record.do?product=WOS&search\\_mode=GeneralSearch&qid=7&SID=E51p3qk7nEQb72gM9Ji&page=1&doc=12](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=7&SID=E51p3qk7nEQb72gM9Ji&page=1&doc=12)
11. Cristian Patrascioiu, Grigore Stamatescu, Monitoring pH with HART communication, Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications (IDAACS), 2017 9th IEEE International Conference on, Bucharest, pp. 864 - 869. WOS:000425870400052. Link: [http://apps.webofknowledge.com/full\\_record.do?product=WOS&search\\_mode=GeneralSearch&qid=7&SID=E51p3qk7nEQb72gM9Ji&page=1&doc=24](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=7&SID=E51p3qk7nEQb72gM9Ji&page=1&doc=24)
12. Andrei Dobrin, Cristian Dragana, Grigore Stamatescu, Valentin Sgarciu, Hierarchical cloud storage engine, Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications (IDAACS), 2017 9th IEEE International Conference on, Bucharest, pp. 504 - 509. WOS:000425869000092. Link: [http://apps.webofknowledge.com/full\\_record.do?product=WOS&search\\_mode=GeneralSearch&qid=7&SID=E51p3qk7nEQb72gM9Ji&page=1&doc=20](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=7&SID=E51p3qk7nEQb72gM9Ji&page=1&doc=20)
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15. Tiberiu Marinescu, Nicoleta Arghira, Daniela Hossu, Ioana Fagarasan, Iulia Stamatescu, Grigore Stamatescu, Vasile Calofir, Sergiu Iliescu, Advanced Control Strategies for Irrigation Systems, The 9th IEEE International Conference on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications (IDAACS'2017), September 21-23, 2017 Bucharest, Romania, pp. 843 - 848. WOS:000425870400048. Link: [http://apps.webofknowledge.com/full\\_record.do?product=WOS&search\\_mode=GeneralSearch&qid=7&SID=E51p3qk7nEQb72gM9Ji&page=1&doc=22](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=7&SID=E51p3qk7nEQb72gM9Ji&page=1&doc=22)
16. Stamatescu Iulia, Grigore Stamatescu, Ioana Fagarasan, Nicoleta Arghira, Vasile Calofir, Sergiu Stelian Iliescu, 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'2017), September 21-23, 2017 Bucharest, Romania, pp. 475 - 480. WOS:000425869000086. Link: [http://apps.webofknowledge.com/full\\_record.do?product=WOS&search\\_mode=GeneralSearch&qid=7&SID=E51p3qk7nEQb72gM9Ji&page=1&doc=19](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=7&SID=E51p3qk7nEQb72gM9Ji&page=1&doc=19)
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20. Chitu Claudia, Stamatescu Grigore, Stamatescu Iulia, Sgarciu, Valentin, Wireless System for Occupancy Modelling and Prediction in Smart Buildings, Proceedings of the 25th Mediterranean Conference on Control and Automation (MED 2017), pp. 1094 - 1099. WOS:000426926300179. Link:[http://apps.webofknowledge.com/full\\_record.do?product=WOS&search\\_mode=GeneralSearch&qid=7&SID=E5lp3qk7nEQb72gM9Ji&page=1&doc=16](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=7&SID=E5lp3qk7nEQb72gM9Ji&page=1&doc=16)"
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22. Nicoleta ARGHIRA, Iulia STAMATESCU, Ioana FĂGĂRĂȘAN, Grigore STAMATESCU, Vasile CALOFIR, Sergiu Stelian ILIESCU, Demand Dispatch Framework for Smart Distribution Grids, Proceedings of the 12th IEEE Conference on Industrial Electronics and Applications, ICIEA 2017, pp. 48 - 52. WOS:000426994400009. Link: [http://apps.webofknowledge.com/full\\_record.do?product=WOS&search\\_mode=GeneralSearch&qid=7&SID=E5lp3qk7nEQb72gM9Ji&page=1&doc=14](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=7&SID=E5lp3qk7nEQb72gM9Ji&page=1&doc=14)
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Departamentul de stat al SUA - contract nr. 586/24.08.2015 [22185 USD], Responsabil grant: S.I. Dr. Ing. Grigore Stamatescu. Link: <https://www.cies.org/grantee/grigore-stamatescu>

2. Proiect "Dynamische SW-Architekturen in Steuergeräten"/"Dynamic Software Architectures in Control Devices" (DynaS3), BMBF Grant FKZ1752X07, Laboratory for Safe and Secure Systems (LaS3), FH Regensburg, Germania. Membru

- **National**

1. Grant de cercetare de excelenta Titlu: "Noi algoritmi de consens dinamic pentru managementul termic al cladirilor" (CONSENSYS), Competitie proiecte UPB GEX 2015, Contract nr. 20/26.09.2016 [18900 RON], Durata 1 an: Septembrie 2016 - Septembrie 2017, Director de proiect: S.I. Dr.-Ing. Grigore Stamatescu, <http://imtt.pub.ro/cercetare/proiecte/consensys/?lang=en>
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- **National**

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