

Profesor Dr. Ing. Valentin SGÂRCIU

Lista publicațiilor științifice (2000-2016)

● Monografii, Capitle de carte (publicații internaționale)

1. Riccardo De Asmundis Editor - LabVIEW Modelling, Programming and Simulations, Chapter 4 Distance Process Monitoring using LabVIEW Environment, pg. 67-88, Intech, 2011.
2. I.Halcu, Gr.Stamatescu, I.Stamatescu, V.Sgârciu - *IPv6 Sensor Networks Modeling for Security and Communication Evaluation*, Chapter in *Recent Advances in Systems Safety and Security*, Volume 62 of the series *Studies in Systems, Decision and Control*, pp 241-259, Date: 26 May 2016, Book Title: *Recent Advances in Systems Safety and Security*, Pages: 241-259, Copyright 2016, DOI: 10.1007/978-3-319-32525-5_14, Print ISBN: 978-3-319-32523-1, Online ISBN: 978-3-319-32525-5, Series Title: *Studies in Systems, Decision and Control*, Series Volume: 62, Series ISSN: 2198-4182, Publisher: Springer International Publishing.
3. D.Nasui, A.Cernian, V.Sgârciu, D.Carstoiu - *On Using a Cloud-Based Approach to Develop a Mobile Asset Management Solution*, Chapter in *Recent Advances in Systems Safety and Security*, Volume 62 of the series *Studies in Systems, Decision and Control*, pp 139-155, Print ISBN: 978-3-319-32523-1, Online ISBN: 978-3-319-32525-5, Series Title: *Studies in Systems, Decision and Control*, Series Volume: 62, Series ISSN: 2198-4182, Publisher: Springer International Publishing.
4. A.C.Enache, V.Sgârciu - *An Improved Bat Algorithm Driven by Support Vector Machines for Intrusion Detection*, Chapter in *International Joint Conference*, Volume 369 of the series *Advances in Intelligent Systems and Computing*, pp 41-51, Date: 27 May 2015, p. 41-51, Copyright 2015, DOI: 10.1007/978-3-319-19713-5_4, Print ISBN: 978-3-319-19712-8, Online ISBN: 978-3-319-19713-5, Publisher: Springer International Publishing.
5. MC Caraivan, V Dache, V Sgarciu - *Common Framework model for multi-purpose underwater data collection devices deployed with remotely operated vehicles*, in *Advances in Intelligent Robotics and Collaborative Automation*, pp 257-294, edited by Yuriy P. Kondratenko, Richard J. Duro, ISBN: 978-87-93237-03-2
6. G.Stamatescu, I.Stamatescu, C.Vasile, V.Sgârciu - *Effective Academia-Industry Collaboration for Virtual Instrumentation Teaching and Certification Program*, **Book Series:** eLearning and Software for Education 3: 357-364. Bucharest: "Carol I" National Defense University, 2014

● Monograii, Capitle de carte (publicatii nationale)

1. V.Sgârciu, M.Ceapâru, D.A.Hanomolo – *Diagnoza produselor și sistemelor*, Ed.MATRIX-ROM, 2002, 150 pg. ISBN : 973-685-453-1.
2. V.Sgârciu, D.Popescu – *Echipamente pentru măsurarea și controlul parametrilor de proces*, Ed.Electra-ICPE, 2002, 240 pg. ISBN : 973-8067-70-7
3. V. Sgarciu, C.Soare, M. Anghel – *Prelucrări de date ; Aplicații*, Ed.Politehnica Press, 2005, 200 pg. ISBN: 973-8449-67-7.
4. V.Sgârciu, G.Ionescu, M.St.Vlad – *Traductoare și instrumentație virtuală*, Ed.PRINTECH, 2007, 390 pg. ISBN : 978-973-718-795-6.

● Articole in reviste si volume proceedings de conferinte (indexate ISI)

1. A.Cernian, D.Cârstoiu, A.Olteanu, V.Sgârciu - *An Integrated Cluster Analysis and Validity Test Platform for the Compression based Clustering Approach*, *Studies in Informatics and Control*, ISSN 1220-1766, vol. 24 (2), pp. 111-158, 2015.

2. C.Vasile, G.Stamatescu, V.Sgârciu, C.Ioana - *Consistency Analysis of Ultrasound Echoes within a Dual Symmetric Path Inspection Framework*, Advances in Electrical and Computer Engineering, Volume 15, Number 2, 2015, Digital Object Identifier 10.4316/AECE.2015.02006, ISSN: 1582-7445, © 2015 AECE, pp.45-50.
3. M.Vlădescu, V.Sgarciu - *Maintaining high level information security in enterprises using event correlation*, 2016 UPB Scientific Bulletin, Series C: Electrical Engineering.
4. G.Neculoiu; V.Sgarciu; A.V.Marinescu; M.Marinescu - *Increasing energy efficiency of a building with minimal computational demands using model predictive control*, Published in: 2015 14th RoEduNet International Conference - Networking in Education and Research (RoEduNet NER), Date of Conference: 24-26 Sept. 2015 , Page(s): 103 – 108, ISSN : 2068-1038, Print ISBN: 978-1-4673-8179-6, INSPEC Accession Number: 15558363, Conference Location: Craiova , DOI: 10.1109/RoEduNet.2015.7311977, Publisher: IEEE.
5. I.Halcu; Gr.Stamatescu; V.Sgârciu - *Enabling security on 6LoWPAN / IPv6 Wireless Sensor Networks*, Published in: 2015 7th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), , Date of Conference: 25-27 June 2015, Page(s): SSS-29 - SSS-32, Print ISBN: 978-1-4673-6646-5, INSPEC Accession Number: 15556161, Conference Location: Bucharest, DOI: 10.1109/ECAI.2015.7301201, Publisher: IEEE.
6. G. Neculoiu; V. Dache; G. Stamatescu; V. Sgarciu - *Buildings modeling in order to implement optimal temperature control*, Published in: Electronics, Computers and Artificial Intelligence (ECAI), 2015 7th International Conference on, Date of Conference: 25-27 June 2015, Page(s): S-43 - S-48, Print ISBN: 978-1-4673-6646-5, INSPEC Accession Number: 15556130, Conference Location: Bucharest, DOI: 10.1109/ECAI.2015.7301159, Publisher: IEEE.
7. A.Cernian; V.Sgarciu; B.Martin - *Sentiment analysis from product reviews using SentiWordNet as lexical resource*, Published in: 2015 7th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Date of Conference: 25-27 June 2015, Page(s): WE-15 - WE-18, Print ISBN: 978-1-4673-6646-5, INSPEC Accession Number: 15556184, Conference Location: Bucharest, DOI: 10.1109/ECAI.2015.7301224, Publisher: IEEE.
8. G.Stamatescu; C.Chițu; C.Vasile; I.Stamatescu; D.Popescu; V.Sgârciu - *Analytical and experimental sensor node energy modeling in ambient monitoring*, Published in: 2014 9th IEEE Conference on Industrial Electronics and Applications, Date of Conference: 9-11 June 2014, Page(s): 1615 – 1620, ISSN: 2156-2318, Print ISBN: 978-1-4799-4316-6, INSPEC Accession Number: 14697393, Conference Location: Hangzhou, DOI: 10.1109/ICIEA.2014.6931426, Publisher: IEEE.
9. A.C.Enache; V.Sgârciu - *Spam host classification using PSO-SVM*, Published in: Automation, Quality and Testing, Robotics, 2014 IEEE International Conference on, Date of Conference: 22-24 May 2014, Page(s): 1 – 5, Print ISBN: 978-1-4799-3731-8, INSPEC Accession Number: 14467163, Conference Location: Cluj-Napoca, DOI: 10.1109/AQTR.2014.6857840, Publisher: IEEE.
10. G.Mateescu; M.Vlădescu; V.Sgârciu - *Auditing cloud computing migration*, Published in: Applied Computational Intelligence and Informatics (SACI), 2014 IEEE 9th International Symposium on, Date of Conference: 15-17 May, 2014, Page(s): 263 – 268, INSPEC Accession Number: 14384528, Conference Location: Timisoara, DOI: 10.1109/SACI.2014.6840073, Publisher: IEEE.
11. G.Stamatescu; G.Sterpu; V.Sgârciu - *VIBSYS: Integrated didactic and research platform for Vibration Analysis*, Published in: Electrical and Electronics Engineering (ISEEE), 2013 4th International Symposium on, Date of Conference: 11-13 Oct. 2013, Page(s): 1 – 5, INSPEC Accession Number: 13936693, Conference Location: Galati, DOI: 10.1109/ISEEE.2013.6674363, Publisher: IEEE.
12. A.Olteanu; G.Stamatescu; A.D.Ioniță; V.Sgârciu - *Enhanced data integration for LabVIEW laboratory systems*, Published in: 2013 8TH INTERNATIONAL SYMPOSIUM ON ADVANCED TOPICS IN ELECTRICAL ENGINEERING (ATEE), Date of Conference: 23-25 May 2013, Page(s): 1 – 6, ISSN: 2068-7966, Print ISBN: 978-1-4673-5979-5, INSPEC Accession Number: 13778522, Conference Location: Bucharest, DOI: 10.1109/ATEE.2013.6563535, Publisher: IEEE.
13. D.Nasui; V.Sgarciu; A.Cernian - *Cloud-based application development platform for secure, intelligent, interlinked and interactive infrastructure*, Published in: Applied Computational Intelligence and Informatics (SACI), 2013 IEEE 8th International Symposium on, Date of Conference: 23-25 May 2013,

14. C.Vasile, P.T.Ion, C.Ioana, V.Sgârciu, J.Mars, I.Candel - *Ultrasound Testing of Metallic Structures using a Dual Symmetric Path Inspection and a Matched Filter-based Method*, 5th IEEE workshop on Computational Advances in Multi-Sensor Adaptive Processing (CAMSAP 2013), Dec 2013, Saint Martin. pp.149-152, 2013, DOI : 10.1109/CAMSAP.2013.6714029
15. S.Nastea, V.Sgârciu, M.Şimonca – *Parallel I/O Performance Optimization*, Rev.Roum.Sci.Techn. – Electrotechn. et Energ., 45, 3, pp.487-499, Bucharest, 2000
16. M.S.Vlad, V.Sgârciu, M.Ceapârû – *Integrated System Used for Personal Identification to a Robot Mainframe*, Elsevier IFAC Proceedings Volumes, 2004, pg.107-112, ISBN 0-08-044065-7, ISSN 1474-6670.
17. M.S.Vlad, M.Ceapârû, V.Sgârciu – *Experimental System Used for Traceability in an Automated Assembly Line*, Elsevier IFAC Proceedings Volumes, 2004, pg.131-136, ISBN 0-08-044065-7, ISSN 1474-6670.
18. V.Sgârciu, A.M.Simonca – *Modality of Diagnosis of an Assembling / Disassembling Robot*, Elsevier IFAC Proceedings Volumes, 2004, pg.155-160, ISBN 0-08-044065-7, ISSN 1474-6670.
19. M.St.Vlad, V.Sgârciu - *Distance process monitoring using LabView environment*, IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics, IEEE Catalog Number: 06Ex1370, ISBN 1-4244-0360-X, Library of Congress: 2006924077, 2006
20. V.Sgârciu, M.St.Vlad - *Secure personal identification system using Java Cards*, WSEAS Transactions on Information Science and Applications, vol.4, nr.1, January, 2007, pg.203-208, ISSN: 1790-0832
21. M.St.Vlad, V.Sgârciu - *A RFID system designed for intelligent manufacturing process*, WSEAS Transactions on Information Science and Applications, vol.4, nr.1, January 2007, pg.36-41, ISSN: 1790-0832
22. C.Coşoi, V.Sgârciu, M.St.Vlad - *Assigning Relevancies to Individual Features for Large Patterns in Artmap Networks*, Annals of DAAAM for 2007 & Proceedings of the 18th International DAAAM Symposium, ISBN 3-901509-58-5,vol. 18, pp 615-616, october 2007
23. C.Coşoi, M.St.Vlad, V.Sgârciu - *Using a Neural Network to Determine a Cat's Emotional State by its Meow*, Annals of DAAAM for 2007 & Proceedings of the 18th International DAAAM Symposium, ISBN 3-901509-58-5,vol. 18, pp 617-618, october 2007
24. V.Sgârciu, I.Rancea - *Principles of Functional Verification for Digital Circuits*, Annals of DAAAM for 2007 & Proceedings of the 18th International DAAAM Symposium, ISBN 3-901509-58-5,vol. 18, pp 637-638, october 2007
25. C.Cosoi, M.Vlad, V.Sgarciu - *On Neural Networks and the future of Spam*, AQTR 2008, vol.III, Proceedings, pg.230-233
26. I.Rancea, V.Sgarciu - *Functional Verification of Digital Circuits Using a Software System*, AQTR 2008, vol.I, Proceedings, pg.152-157
27. Cosoi, A.C.; Sgarciu, V.; Vlad, M.S. - *Build Your Antiphishing Technology in Just 5 Minutes*, DAAAM 2008, proceedings, pg.0307-0308
28. Cosoi, A.C.; Sgarciu, V.; Vlad, M.S. - *Introducing Syntactic Features into a Bayesian Classifier*, DAAAM 2008, proceedings, pg.0309-0310
29. Cosoi, A.C.; Vlad, M.S.; Sgarciu, V. - *Heuristic Image Recognition*, DAAAM 2008, proceedings, pg.0311-0312
30. Rancea, I.; Sgarciu, V.; Dichiu, D. - *Remote Monitoring and Data Acquisition of Industrial Process Parameters through Internet*, DAAAM 2008, proceedings, pg.1169-1170
31. Rancea, I.; Sgarciu, V.; Stamatescu, G. - *Remote Monitoring of Parameters for a Pressure Transducer through Hart Protocol and Labview Environment*, DAAAM 2008, proceedings, pg.1171-1172
32. Nasui D., Rancea I., Sgarciu V., Oprea B., Tanase C., Ene C., Negulescu C. - *Wireless Monitoring of a Computerized City using SafeMobile Units*, IARIA ICSNC 2009 – The Fourth International Conference on Systems and Networks Communications, IEEE Computer Society Order Number E3775, ISBN-13: 978-0-7695-3775-7, BMS Part # CFP0980B-CDR, pp 261-264

33. Coșoi C.A, Coșoi C.M, Sgarciu V, Dumitru B, Vlad M.S, Corduneanu M – *The Romanian Social Fractal*, Proceedings of DAAAM 2009, Viena, Austria, 25-28 nov, pp.103-104, ISSN 1726-9679, ISBN 978-3-901509-70-4
34. Coșoi C.A, Coșoi C.M, Sgarciu V, Dumitru B, Vlad M.S – *Spam / Twitter*, Proceedings of DAAAM 2009, Viena, Austria, 25-28 nov, pp.105-106, ISSN 1726-9679, ISBN 978-3-901509-70-4
35. Carstoiu D, Cernian A, Spanoiaie G, Sgarciu V, Olteanu A – *Modeling a Semantic WEB Management System*, Proceedings of DAAAM 2009, Viena, Austria, 25-28 nov, pp.291-292, ISSN 1726-9679, ISBN 978-3-901509-70-4
36. Carstoiu D, Cernian A, Sgarciu V, Olteanu A – *On Clustering Heterogeneous Data and Clustering by Compression*, Proceedings of DAAAM 2009, Viena, Austria, 25-28 nov, pp.293-294, ISSN 1726-9679, ISBN 978-3-901509-70-4.
37. Rancea I, Sgarciu V, Dichiu D – *A Patient Smart Card Solution Used for an Experimental Model in Health Care Environment*, Proceedings of DAAAM 2009, Viena, Austria, 25-28 nov, pp.315-316, ISSN 1726-9679, ISBN 978-3-901509-70-4
38. Rancea I, Sgarciu V, Stamatescu G – *Remote Acquisition; Processing and Generation of Digital Signals for a Reversible Counter through LABVIEW Environment*, Proceedings of DAAAM 2009, Viena, Austria, 25-28 nov, pp.857-858, ISSN 1726-9679, ISBN 978-3-901509-70-4.
39. Nasui D.V, Cosoi A.C, Sgarciu V, Rancea I – *Using Wireless Monitoring for Market Research Interviewers*, Proceedings of DAAAM 2009, Viena, Austria, 25-28 nov, pp.1153-1154, ISSN 1726-9679, ISBN 978-3-901509-70-4
40. Dichiu D, Sgarciu V – *Semantic Graph Classifier for HTML Documents*, Proceedings of DAAAM 2009, Viena, Austria, 25-28 nov, pp.1349-1350, ISSN 1726-9679, ISBN 978-3-901509-70-4
41. Gams M, Cosoi A.C, Corduneanu M, Kolbe M, Vlad M.S, Sgarciu V – *A New Method for Fingerprint Clasification*, Proceedings of DAAAM 2009, Viena, Austria, 25-28 nov, pp.1415-1416, ISSN 1726-9679, ISBN 978-3-901509-70-4
42. Rancea I., Sgarciu V., Stamatescu G. - Remote Monitoring of Parameters for a Pressure Transducer through HART Protocol and LabView Environment, Accepted paper, DAAAM International Scientific Book 2009, VOL.8, pp. 779-786, CHAPTER 75; ISBN 978-3-901509-69-8; 2010, <http://www.ebscohost.com/title-lists>
43. Cosoi, A. C.; Vlad, M. S. & Sgarciu, V. - Heuristic Image Recognition, DAAAM International Scientific Book 2009, VOL.8, pp. 377-384 CHAPTER 39, ISBN 978-3-901509-69-8, ISSN 1726-9687; aparitie 2010, <http://www.ebscohost.com/title-lists>
44. Carstoiu, D. Cernian, A. Sgarciu, V. Olteanu, A. - The architecture of an enterprise information management system based on Semantic Web, Proceedings of the 4th IEEE International Conference on New Trends in Information Science and Service Science (NISS), 2010. pp: 218 – 223; ISBN: 978-1-4244-6982-6
45. Cernian, Alexandra, Carstoiu, Dorin, Sgarciu, Valentin - On Using Metadata and Compression Algorithms to Cluster Heterogeneous Documents from a Semantic Point of View, 2010 IEEE Fifth International Conference on Software Engineering Advances (ICSEA 2010), 22-27 August, Nice, France; ISBN: 978-0-7695-4144-6/10; Digital Object Identifier: 10.1109/ICSEA.2010.36, pp: 190 – 195
46. Alexandra Suzana Cernian, Liliana Dobrica, Dorin Carstoiu, Valentin Sgarciu - On Using the Normalized Compression Distance to Cluster WEB Search Results, Proceedings of the 5-th International Conference on Software and Data Technologies (ICSOF 2010); 22-24 July 2010, Athens, Greece; vol.1, pp. 293-298; ISBN: 978-9-8984-252-25
47. Stamatescu G., Sgarciu V., Stamatescu S. - PC-based System for Level Transducer Interfacing, Proceedings of the The First International Conference on Sensor Device Technologies and Applications (SDEVICES'10), Venice, July 18-25 2010
48. Carstoiu, D., Cernian, A.S., Sgarciu, V., Olteanu, A. - The architecture of a distributed enterprise information management system based on Semantic Web, Proceedings of the 2010 IEEE International Conference on Automation Quality and Testing, Robotics (AQTR THETA 17-th edition), May 28-30 2010, Cluj-Napoca, Romania; Volume: 3. Digital Object Identifier: 10.1109/AQTR.2010.5520664; pp: 1 – 7; ISBN: 978-1-4244-6722-8

49. Nasui, D., Oana, F. A., Sgarciu, V. - Wireless monitoring system in a safe city with Safe Mobile, 2010 IEEE International Joint Conference on Computational Cybernetics and Technical Informatics (ICCC-CONTI 2010); May 27-29, 2010, Timisoara, Romania; IEEE Catalog Number: CFP10575-CDR ISBN: 978-1-4244-7431-8; Digital Object Identifier: 10.1109/ICCCYB.2010.5491331, pp: 655 – 658
50. Alexandra Cernian, Dorin Carstoiu, Valentin Sgarciu - Improving Heterogeneous Data Clustering by Using Metadata and Compression Algorithms, Proceedings of the 9-th RoEduNet IEEE International Conference; Sibiu, Romania, 24-26 June 2010; pp.169-173; ISSN: 2068-1038
51. Alexandra Suzana Cernian, Dorin Carstoiu, Valentin Sgarciu, Iuliana Florea - Improving the Quality Assurance Process in a Software Company by Automatically Clustering Bugs, 12th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing Timisoara, Romania, 23-26 septembrie 2010,
52. Nasui Dorel, Oana Florentina Andra, Sgarciu Valentin, Oprea Bogdan - Vehicular Networks in a Computerized City Using Safe Mobile, The Fifth International Conference on Systems and Networks Communications (ICSNC 2010), August 22-27, 2010 - Nice, France; ISBN 978-0-7695-4145-7; DOI 10.1109/ICSNC.2010.22; pp. 105-110
53. D. Nasui, I. Rancea, V. Sgarciu - Intelligent System for Bus School Safe Driving using Wireless Monitoring Units, 18th Telecommunications forum TELFOR 2010, ISBN 978-86-7466-392-9, pp. 566-569
54. D. Nasui, F.A.Oana, V. Sgarciu - Wireless Monitoring System in a Safe City with Safe Mobile, IEEE International Joint Conferences on Computational Cybernetics and Technical Informatics (ICCC-CONTI 2010), pp.655-658, ISBN 978-1-4244-7431-8, 2010
55. D. Nasui, F.A.Oana, V. Sgarciu - Wireless Monitoring System in a Safe City with Safe Mobile, SCIENTIFIC BULLETIN of “Politehnica” University of Timisoara, ROMANIA, Transactions on AUTOMATIC CONTROL and COMPUTER SCIENCE.
56. G. Stamatescu, V. Sgarciu - Integration of Wireless Sensor Networks with Virtual Instrumentation in a Residential Environment, Scientific Bulletin UPB, Series C, Electrical Engineering and Computer Science, 75(2), pp. 41-52, ISSN 1454-234x, 2013
57. Rancea, I. , Sgarciu, V. - Automated code generation system for the syntactic phase of a compiler, UPB Scientific Bulletin, Series C: Electrical Engineering, Volume 75, Issue 1, 2013, Pages 47-58
58. Stamatescu, G. , Sgarciu, V. - Integration of wireless sensor networks with virtual instrumentation in a residential environment, UPB Scientific Bulletin, Series C: Electrical Engineering, Volume 75, Issue 2, 2013, Pages 41-52
59. Enache, A.C. , Sgarciu, V. - *Spam host classification using PSO-SVM* - Published in: IEEE International Conference on Automation, Quality and Testing, Robotics, 2014, Date of Conference: 22-24 May 2014, Page(s): 1 – 5, Print ISBN: 978-1-4799-3731-8, INSPEC Accession Number: 14467163, Conference Location: Cluj-Napoca, DOI: 10.1109/AQTR.2014.6857840, Publisher: IEEE
60. Mateescu, G. ; Vladescu, M. ; Sgarciu, V. - *Auditing cloud computing migration*, Published in: IEEE 9th International Symposium on Applied Computational Intelligence and Informatics (SACI), 2014, Date of Conference: 15-17 May 2014, Page(s): 263 - 268, INSPEC Accession Number: 14384528, Conference Location: Timisoara, DOI: 10.1109/SACI.2014.6840073, Publisher: IEEE
61. Stamatescu, G., Chitu, C. , Vasile, C. , Stamatescu, I. , Popescu, D. , Sgarciu, V. - *Analytical and experimental sensor node energy modeling in ambient monitoring*, Published in: Conference on Industrial Electronics and Applications (ICIEA), 9th IEEE, 2014, Date of Conference: 9-11 June 2014, Page(s): 1615 – 1620, Print ISBN: 978-1-4799-4316-6, INSPEC Accession Number: 14697393, Conference Location : Hangzhou, DOI: 10.1109/ICIEA.2014.6931426, Publisher: IEEE
62. Enache, A.C.; Sgarciu, V. - *Anomaly intrusions detection based on support vector machines with bat algorithm* , Published in: System Theory, Control and Computing (ICSTCC), 2014 18th International Conference, Date of Conference: 17-19 Oct. 2014 , Page(s): 856 - 861, Conference Location: Sinaia, Romania, DOI: 10.1109/ICSTCC.2014.6982526 , Publisher: IEEE
63. D. Nasui, A. Cernian, V. Sgarciu - *Cloud Based Student Transportation Safety System*, 6th International Conference on Electronics, Computers and Artificial Intelligence ECAI 2014, October 23– October 25,

2014, Bucharest, Romania, Pages: 49 - 54, DOI: 10.1109/ECAI.2014.7090146, IEEE Conference Publications

64. I. Halcu, GR. Stamatescu, I. Stamatescu, V. Sgârciu - *An Analysis of Security and Communication Constraints of IPv6- Based Sensor Networks*, 6th International Conference on Electronics, Computers and Artificial Intelligence ECAI 2014, October 23– October 25, 2014, Bucharest, Romania, Pages: 55 - 60, DOI: 10.1109/ECAI.2014.7090224, IEEE Conference Publications.
65. D. Nasui, A. Cernian, V. Sgarciu, D. Carstoiu - *Cloud-Based Mobile Asset Management Solution*, 6th International Conference on Electronics, Computers and Artificial Intelligence ECAI 2014, October 23– October 25, 2014, Bucharest, Romania
66. Halcu I., Stamatescu G., Stamatescu I., Sgarciu V., *An Analysis of Security and Communication Constraints of IPv6-based Sensor Networks*, Proc. of the 6th Electronics, Computers and Artificial Intelligence Conference, IWSSS Workshop, 23-25 October, Bucharest, 2014
67. Enache A.C., Sgârciu V. - *Enhanced Intrusion Detection System Based on Bat Algorithm-support Vector Machine*, 11th International Conference on Security and Cryptography, Austria, Viena, August 2014, pp. 184-189.
68. Stamatescu Gr.; Stamatescu I.; Vasile C.; Sgarciu V. - *Effective Academia-Industry Collaboration for Virtual Instrumentation Teaching and Certification Program*, 10th International Scientific Conference on eLearning and Software for Education, Location: Bucharest, ROMANIA, Date: APR 24-25, 2014 LET'S BUILD THE FUTURE THROUGH LEARNING INNOVATION!, VOL. III Book Series: eLearning and Software for Education, Pages: 357-364, Published: 2014

● **Articole in reviste si volume proceedings de conferinte (indexate in alte BDI)**

1. Gr.Stamatescu, I.Stamatescu, D.Popescu, V.Sgârciu - *Design and Implementation of an Intelligent Expansion Module for Wireless Gas Sensor Networks*, Sensors & Transducers, Vol. 187, Issue 4, April 2015, pp. 10-16, Sensors & Transducers © 2015 by IFSA Publishing, S. L.
2. A.C.Enache, V.Sgarciu - *A Feature Selection Approach implemented with the Binary Bat Algorithm applied for Intrusion Detection*, IEEE Conference: 38th International Conference on Telecommunications and Signal Processing (TSP) Location: Prague, CZECH REPUBLIC Date: JUL 09-11, 2015, Sponsor(s): IEEE, Czechoslovakia Sect; Czech Invest 2015 38TH INTERNATIONAL CONFERENCE ON TELECOMMUNICATIONS AND SIGNAL PROCESSING (TSP) Pages: 11-15, Published: 2015, INSPEC Accession Number: 15521585, DOI: 10.1109/TSP.2015.7296215.
3. A.C.Enache; M.Ioniță; V.Sgârciu - *An immune intelligent approach for security assurance*, Published in: Cyber Situational Awareness, Data Analytics and Assessment (CyberSA), 2015 International Conference on, Date of Conference: 8-9 June 2015, Page(s): 1 – 5, INSPEC Accession Number: 15311439, Conference Location: London, DOI: 10.1109/CyberSA.2015.7166116, Publisher: IEEE.
4. M.Caraivan, V.Sgârciu, I.Surugiu - *Underwater Environment Monitoring Devices Integration with Virtual Scenarios in Remotely Operated Vehicles Simulator*, U.P.B. Sci. Bull., Series C, Vol. 76, Iss. 1, 2014 ISSN 2286 – 3540.
5. G.Mateescu, V.Sgârciu - *Cloud Computing Audit*, U.P.B. Sci. Bull., Series C, Vol. 77, Iss. 3, 2015 ISSN 2286-3540
6. G.Stamatescu, V.Sgârciu - *Integration of Wireless Sensor Networks with Virtual Instrumentation in a Residential Environment*, Scientific Bulletin, Series C: Electrical Engineering and Computer Science, Vol. 75, Iss. 2, pp. 41-52, 2013, ISSN 2286-3540.
7. M.I. Khadem, V.Sgârciu - *Smart Sensor Nodes for Airborne Particulate Concentration Detection*, U.P.B. Sci. Bull., Series C, Vol. 76, Iss. 4, 2014 ISSN 2286-3540.
8. I.Rancea, V.Sgârciu - *Automated Code Generation System for the Syntactic Phase of a Compiler*, U.P.B. Sci. Bull., Series C, Vol. 75, Iss. 1, 2013 ISSN 1454-234x.
9. I.Rancea, V.Sgârciu - *Automatic Wrapper System for Semistructured Documents Based on Data Mining*, U.P.B. Sci. Bull., Series C, Vol. 74, Iss. 4, 2012 ISSN 1454-234x.
10. I.Halcu; D.Nunes; V.Sgârciu; J.Sá Silva - *New mechanisms for privacy in human-in-the-loop cyber-physical systems*, Published in: Intelligent Data Acquisition and Advanced Computing Systems:

Technology and Applications (IDAACS), 2015 IEEE 8th International Conference on (Volume:1), Date of Conference: 24-26 Sept. 2015, Page(s): 418 – 423, Print ISBN: 978-1-4673-8359-2, INSPEC Accession Number: 15636779, Conference Location: Warsaw, DOI: 10.1109/IDAACS.2015.7340770, Publisher: IEEE.

11. G.Neculoiu; V.Dache; Gr.Stamatescu; V.Sgarciu - *Model Predictive Control applied for building thermal control*, Published in: 2015 Intl Aegean Conference on Electrical Machines & Power Electronics (ACEMP), 2015 Intl Conference on Optimization of Electrical & Electronic Equipment (OPTIM) & 2015 Intl Symposium on Advanced Electromechanical Motion Systems (ELECTROMOTION), Date of Conference: 2-4 Sept. 2015, Page(s): 363 – 368, INSPEC Accession Number: 15838006, Conference Location: Side, DOI: 10.1109 / OPTIM. 2015. 7427008, Publisher: IEEE.
12. A.Cr.Enache; V.Sgârciu - *Anomaly Intrusions Detection Based on Support Vector Machines with an Improved Bat Algorithm*, Published in: 2015 20th International Conference on Control Systems and Computer Science, Date of Conference: 27-29 May 2015, Page(s): 317 – 321, ISSN: 2379-0474, Print ISBN: 978-1-4799-1779-2, INSPEC Accession Number: 15397799, Conference Location: Bucharest, DOI: 10.1109/CSCS.2015.12, Publisher: IEEE.
13. G.Neculoiu; V.Dache; Gr.Stamatescu; V.Sgarciu - *Buildings modeling in order to implement optimal temperature control*, Published in: 2015 7th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), , Date of Conference: 25-27 June 2015, Page(s): S-43 - S-48, Print ISBN: 978-1-4673-6646-5, INSPEC Accession Number: 15556130, Conference Location: Bucharest, DOI: 10.1109/ECAI.2015.7301159, Publisher: IEEE.
14. A.C.Enache; V.Sgârciu; A.Petrescu-Niță - *Intelligent feature selection method rooted in Binary Bat Algorithm for intrusion detection*, Published in: Applied Computational Intelligence and Informatics (SACI), 2015 IEEE 10th Jubilee International Symposium on, Date of Conference: 21-23 May 2015, Page(s): 517 – 521, INSPEC Accession Number: 15383499, Conference Location: Timisoara, DOI: 10.1109/SACI.2015.7208259, Publisher: IEEE.
15. G.Stamatescu; I.Stamatescu; C.Drăgana; D.Popescu - *Large scale heterogeneous monitoring system with decentralized sensor fusion*, Published in: Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications (IDAACS), 2015 IEEE 8th International Conference on (Volume:1), Date of Conference: 24-26 Sept. 2015, Page(s): 2 – 5, Print ISBN: 978-1-4673-8359-2, INSPEC Accession Number: 15636753, Conference Location: Warsaw, DOI: 10.1109/IDAACS.2015.7340690, Publisher: IEEE.
16. O.Chenaru; G.Stamatescu; I.Stamatescu ; D.Popescu - *Towards cloud integration for industrial wireless sensor network systems*, Published in: 2015 9th International Symposium on Advanced Topics in Electrical Engineering (ATEE), Date of Conference: 7-9 May 2015, Page(s): 917 – 922, ISSN: 2068-7966, INSPEC Accession Number: 15240886, Conference Location: Bucharest, DOI: 10.1109/ATEE.2015.7133933, Publisher: IEEE.
17. G.Stamatescu; V.Sgârciu - *Evaluation of wireless sensor network monitoring for indoor spaces*, Published in: Instrumentation & Measurement, Sensor Network and Automation (IMSNA), 2012 International Symposium on (Volume:1), Date of Conference: 25-28 Aug. 2012, Page(s): 107 – 111, Print ISBN: 978-1-4673-2465-6, INSPEC Accession Number: 13059093, Conference Location: Sanya, DOI: 10.1109/MSNA.2012.6324525, Publisher: IEEE.
18. I.Halcu; G.Stamatescu; I.Stamatescu; V.Sgarciu - *An analysis of security and communication constraints of IPv6-based Sensor Networks*, Published in: Electronics, Computers and Artificial Intelligence (ECAI), 2014 6th International Conference on, Date of Conference: 23-25 Oct. 2014, Page(s): 55 – 60, Print ISBN: 978-1-4799-5478-0, INSPEC Accession Number: 15076406, Conference Location: Bucharest, DOI: 10.1109/ECAI.2014.7090224, Publisher: IEEE.
19. G.Stamatescu; D.Popescu; V.Sgârciu - *MICARES: Mote expansion module for gas sensing applications*, Published in: Intelligent Data Acquisition and Advanced Computing Systems (IDAACS), 2013 IEEE 7th International Conference on (Volume:01), Date of Conference: 12-14 Sept. 2013, Page(s): 504 – 508, Print ISBN: 978-1-4799-1426-5, INSPEC Accession Number: 13899893, Conference Location: Berlin, DOI: 10.1109/IDAACS.2013.6662736, Publisher: IEEE.

20. D.Nasui; A.Cernian; V.Sgarciu; D.Carstoiu - *Cloud-based mobile asset management solution*, Published in: Electronics, Computers and Artificial Intelligence (ECAI), 2014 6th International Conference on, Date of Conference: 23-25 Oct. 2014, Page(s): 71 – 74, Print ISBN: 978-1-4799-5478-0, INSPEC Accession Number: 15076379, Conference Location: Bucharest, DOI: 10.1109/ECAI.2014.7090213, Publisher: IEEE.
21. M.Caraivan, V.Dache, V.Sgarciu - *Simulation Scenarios for Deploying Underwater Safe-Net Sensor Networks Using Remote Operated Vehicles: Offshore Exploration Constructions Models and Sensor Deployment Methods*, Source: 2013 19th International Conference on Control Systems and Computer Science, pp 419 – 424, book ISBN: 978-1-4673-6140-8, book e-ISBN : 978-0-7695-4980-4, DOI: 10.1109/CSCS.2013.28, Publisher: IEEE.
24. G.Neculoiu; V.Dache; G.Stamatescu; V.Sgarciu - *Model Predictive Control applied for building thermal control*, Published in: 2015 Intl Aegean Conference on Electrical Machines & Power Electronics (ACEMP), 2015 Intl Conference on Optimization of Electrical & Electronic Equipment (OPTIM) & 2015 Intl Symposium on Advanced Electromechanical Motion Systems (ELECTROMOTION), Date of Conference: 2-4 Sept. 2015, Page(s): 363 – 368, INSPEC Accession Number: 15838006, Conference Location: Side, DOI: 10.1109/OPTIM.2015.7427008, Publisher: IEEE.
25. M.C.Caraivan; V.Dache; V.Sgarciu - *Optimal location for underwater data collection sensor network nodes creating multi-purpose "Safe-Nets" around offshore exploration areas*, Published in: System Theory, Control and Computing (ICSTCC), 2013 17th International Conference, Date of Conference: 11-13 Oct. 2013, Page(s): 601 – 606, Print ISBN: 978-1-4799-2227-7, INSPEC Accession Number: 13978376, Conference Location: Sinaia, DOI: 10.1109/ICSTCC.2013.6689025, Publisher: IEEE.
26. D.Nasui; A.Cernian; V.Sgarciu - *Cloud based Student Transportation Safety System*, Published in: Electronics, Computers and Artificial Intelligence (ECAI), 2014 6th International Conference on, Date of Conference: 23-25 Oct. 2014, Page(s): 49 – 54, Print ISBN: 978-1-4799-5478-0, INSPEC Accession Number: 15076382, Conference Location: Bucharest, DOI: 10.1109/ECAI.2014.7090146, Publisher: IEEE.
27. I.Halcu; D.Nunes; V.Sgârciu; J.Sá Silva - *New mechanisms for privacy in human-in-the-loop cyber-physical systems*, Published in: Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications (IDAACS), 2015 IEEE 8th International Conference on (Volume:1), Date of Conference: 24-26 Sept. 2015, Page(s): 418 – 423, Print ISBN: 978-1-4673-8359-2, INSPEC Accession Number: 15636779, Conference Location: Warsaw, DOI: 10.1109/IDAACS.2015.7340770, Publisher: IEEE.
28. A.C.Enache; V.Sgârciu - *Anomaly Intrusions Detection Based on Support Vector Machines with an Improved Bat Algorithm*, Published in: 2015 20th International Conference on Control Systems and Computer Science, Date of Conference: 27-29 May 2015, Page(s): 317 – 321, ISSN: 2379-0474, Print ISBN: 978-1-4799-1779-2, INSPEC Accession Number: 15397799, Conference Location: Bucharest, DOI: 10.1109/CSCS.2015.12, Publisher: IEEE.
29. I.Halcu; G.Stamatescu; V.Sgârciu - *Enabling security on 6LoWPAN / IPv6 Wireless Sensor Networks*, Published in: Electronics, Computers and Artificial Intelligence (ECAI), 2015 7th International Conference on, Date of Conference: 25-27 June 2015, Page(s): SSS-29 - SSS-32, Print ISBN: 978-1-4673-6646-5, INSPEC Accession Number: 15556161, Conference Location: Bucharest, DOI: 10.1109/ECAI.2015.7301201, Publisher: IEEE.
30. A.C.Enache; M.Ioniță; V.Sgârciu - *An immune intelligent approach for security assurance*, Published in: Cyber Situational Awareness, Data Analytics and Assessment (CyberSA), 2015 International Conference on, Date of Conference: 8-9 June 2015, Page(s): 1 – 5, INSPEC Accession Number: 15311439, Conference Location: London, DOI: 10.1109/CyberSA.2015.7166116, Publisher: IEEE.
31. AC Enache, V Sgarciu - *Enhanced Intrusion Detection System Based on Bat Algorithm-support Vector Machine*, SECRIPT, 2014.
32. M. I.Khadem, G. Stamatescu, V. Sgarciu - *Wireless Measurement Node for Dust Sensor Integration*, SENSORCOMM 2012: The Sixth International Conference on Sensor Technologies and Applications. 2012.
33. M.C.Caraivan, V.Dache, V.Sgarciu - *Simulation scenarios for deploying underwater safe-net sensor networks using ROVs*, Bucharest: IEEE The 19th International Conference on Control Systems and Computer Science, 2013. Pages: 419-424

34. C.M.Caraivan, V.Dache, V.Sgârciu - *Deploying Underwater Sensors Safe-Net in Offshore Drilling Operations Surrounding Areas Using Remote Operated Vehicles*, Proceedings of the 14th IFAC Symposium on Information Control Problems in Manufacturing Bucharest, Romania, May 23-25, 2012, pp 871-876, IFAC Proceedings Volumes, DOI: 10.3182/20120523-3-RO-2023.00404
35. Olteanu, A. Cernian, Gr. Stamatescu, G. Mateescu, M. Vladescu, A. Ropot, C. Plesca, M. Togan, V. Sgarciu, D. Carstoiu, D. Saru, M. Anghel, A. Oana - *The design and validation of an experimental model for the secure and efficient medical services based on PKI infrastructures and smart-cards*, 14th IFAC Symposium on Information Control Problems in Manufacturing Show more Volume 45, Issue 6, 23–25 May 2012, Pages 871-876, doi:10.3182/20120523-3-RO-2023.00413.
36. AC Enache, V Sgârciu... - *Intelligent feature selection method rooted in Binary Bat Algorithm for intrusion detection*, ... and Informatics (SACI), ..., 2015 - ieeexplore.ieee.org
37. A.C.Enache, V.Sgârciu - *Designing Real-Time Anomaly Intrusion Detection Through Artificial Immune Systems*, Proceedings fo the 15th European Conference on Cyber Warfare and Security, in Warfare and Security ECCWS 2016 Hosted by Universität der Bundeswehr Munich Germany 7–8 July 2016 Edited by Robert Koch and Gabi Rodosek Bundeswehr University, Munich, Germany, pp 333-341.
38. A. Cernian, A. Olteanu, G. Mateescu, M. Vladescu, Gr. Stamatescu, A. Ropot, C. Plesca, M. Togan, V. Sgarciu, D. Carstoiu, D. Saru, M. Anghel, A. Oana - *The design and implementation of an experimental model for secure management of personal data based on electronic identity card and PKI infrastructure*, IFAC Proceedings Volumes , Volume 45, Issue 6, 23–25 May 2012, Pages 1697-1701, 14th IFAC Symposium on Information Control Problems in Manufacturing.
39. V.Dache, M.C.Caraivan, V.Sgârciu - *Advanced Building Energy Management Systems, Optimize power consumption using IP Base Control Improved Power Grid Stability*, IFAC Proceedings Volumes, Volume 45, Issue 6, 23–25 May 2012, Pages 764-768, 14th IFAC Symposium on Information Control Problems in Manufacturing.
40. V. Sgârciu – Tehnici de detecție și diagnoză a incidentelor utilizate în supravegherea parametrilor de mediu industrial, Analele Universității Hyperion, 1/2000.
41. V. Sgârciu, M. Şimonca – Technical methods for fault detection and diagnosis used in supervisory of environmental industrial parameters, Analele Universității Hyperion, 2/2000.
42. M.Anghel, V.Sgârciu, D.Anghel - Metodă hibridă pentru descoperirea automată a topologiei unei rețele de calculatoare, revista Asigurarea calității, nr.42, 2005, ISSN 1224-5410 (cotată CNCSIS categoria B+).
43. M.Anghel, P.Mihai, V.Sgârciu - Identificarea proactivă a defectelor în rețelele de calculatoare, revista Asigurarea calității, nr.46, 2006, ISSN 1224-5410 (cotată CNCSIS categoria B+).
44. M. St. Vlad, V. Sgârciu - Biometric-smart card system for authentication in electronic transactions, U. P. B. Sci. Bull., Series C, Vol. 69, No. 1, 2007, pg. 61-70, ISSN 1454-234x (cotată CNCSIS categoria B+).
45. M. St. Vlad, V. Sgarciu - Smart process monitoring using LabVIEW environment, U. P. B. Sci. Bull., Series C, Vol. 69, No. 3, 2007, pg. 121-131, ISSN 1454-234x (cotată CNCSIS categoria B+).
46. M.Vlad, L.Zlagnean, V.Sgarciu, L.Besutiu - *Information system for storing and processing of aeromagnetic data from Romanian teritory*, AQTR 2008, Poster Session, pg.210-215, ISBN 978-973-713-248-2.
47. Caraivan M., Sgârciu V., Surugiu I. - *Underwater Environment Monitoring Devices Integration with Virtual Scenarios in Remotely Operated Vehicles Simulator*, U.P.B. Sci. Bull., Series C, Vol. 76, Iss. 1, 2014 ISSN 2286 – 3540, indexata SCOPUS
48. M.I. Khadem, V. Sgârciu - *Smart Sensor Nodes for Airborne Particulate Concentration Detection*, U.P.B. Sci. Bull., Series C, Vol. 76, Iss. 4, 2014, ISSN 2286-3540.
49. Stamatescu Gr., Sterpu G., Sgârciu V. - *Developing an Intelligent Condition Monitoring System*, <http://sine.ni.com/cs/app/doc/p/id/cs-16145> .
50. Mateescu Georgiana, Sgârciu Valentin - *Cloud Computing Audit* – Scientific Bulletin UPB (Submission ID 2801), 2014
51. Vladescu M., Sgârciu V. - *Maintaining high level information security in enterprises using event correlation* – Scientific Bulletin UPB (Submission ID 2810), 2014.

52. Stamatescu G., Sterpu G., Sgarciu V. - *Vývoj inteligentního zařízení pro sledování stavu strojů / Development of an intelligent device for machine condition monitoring*, AUTOMA, Issue 8-9, Pp. 38-39, 2014. ISSN 1210-9592 [LINK], BDI
53. V.Sgârciu, M.Simonca - *About Supervisory of Environmental Industrial Parameters using Fault Detections*, CSCS 13, Bucharest, may 2001.
54. V.Sgârciu, Gh.Florea, C.Rusu, M.Șt.Vlad - *Smart Cards Powerless & Contactless Used in Automatic Personal Identification*, CSCS 13, Bucharest, may 2001.
55. V.Sgârciu, M.Ceapâru, Gh.Florea, C.Rusu – *Smart card multi-application system for access control and personnel automatic identification*, preprints, vol.2, CSCS 14, Bucharest, 2-5 July 2003, pg.252-257.
56. M.S.Vlad, V.Sgârciu, S.S.Iliescu – *Integrated multiapplication system using smart cards in Java Card Technology*, preprints, vol.2, CSCS 14, Bucharest, 2-5 July 2003, pg.293-298.
57. H.Caranica, M.S.Vlad, V.Sgârciu – *Comparative study on contact and contactless smart card focusing on access control application*, preprints, vol.2, CSCS 14, Bucharest, 2-5 July 2003, pg.40-45.
58. A.M.Simonca, V.Sgârciu – *An algorithm for residual generation in fault diagnosis*, preprints, vol.1, CSCS 14, Bucharest, 2-5 July 2003, pg.217-221.
59. A.M.Simonca, D.Anghel, V.Sgârciu – *Adjacent Face Identification Using an Octree Traversing Algorithm*, IFAC International Workshop on Intelligent Assembly and Disassembly, 9-11 oct 2003, Bucharest, preprints, pg.227-232.
60. I.Vlad, V.Sgârciu, G.M. Atanasiu – *Experiencing New Criteria of Quality Assurance in Technical Higher Education*, International Conference Performance based Engineering for 21st Century, 25-27 August, 2004, Iași, preprints, 398-403, ISBN: 973-667-063-5.
61. M.S.Vlad, I.Rancea, M.Trufas, V.Sgârciu – *Acquisition and Monitoring of Process Parameters Using Internet*, proceedings CSCS-15, may 25-27, 2005, vol.1, 8-13, ISBN: 973-8449-89-8; ISBN: 973-8449-90-1.
62. M.S.Vlad, V.Sgârciu – *New data coding approach using quantum cryptography*, proceedings CSCS-15, may 25-27, 2005, vol.2, 8-13, ISBN: 973-8449-89-8; ISBN: 973-8449-91-X.
63. M.Ceapâru, V.Sgârciu – *Distributed Diagnosis Method for Computer Networks*, proceedings IAFA 2005, 25-27 may 2005, vol.3, 29-32, ISBN: 973-8449-89-8; ISBN: 973-8449-92-8.
64. V.Sgârciu, M.Ceaparu – *A Theoretical Approach of the Sensor and Transducer Notions with Applications in Robotics*, proceedings RAAD'05, 26-28 may 2005, Bucharest, pg.209-214, ISBN 973-718-241-3.
65. M.Anghel, V.Sgârciu, D.Anghel – *Shape Recognition with Edge-Based Features*, proceedings RAAD'05, 26-28 may 2005, Bucharest, pg.526-530, ISBN 973-718-241-3.
66. M.S.Vlad, R.Tatoiu, V.Sgârciu – *Smart Card and Biometrics Used for Secured Personal Identification System Development*, 15th International Workshop on Robotics in Alpe-Adria-Danube Region (RAAD 2006), 15-17 iunie 2006, Balatonfured, Ungaria, pg.295-300, ISBN 963 7154 48 5.
67. M.S.Vlad, V.Sgârciu – *Adjusting Process Parametres Using Intelligent Transducers and DAQ Boards*, 15th International Workshop on Robotics in Alpe-Adria-Danube Region (RAAD 2006), 15-17 iunie 2006, Balatonfured, Ungaria, pg.47-54, ISBN 963 7154 48 5.
68. V.Sgârciu, M.S.Vlad - *Smart Card Technology Used in Secured Personal Identification Systems*, 5th WSEAS Int.Conf. on Data Networks, Communications and Computers (DNCOCO'06), Bucharest, Romania, 16-18 oct. 2006, pg.131-136, ISBN: 960-8457-54-8, ISSN: 1790-5117.
69. M.S.Vlad, V.Sgârciu - *A System Using RFID Tags Designated for Intelligent Manufacturing Process*, 5th WSEAS Int.Conf. on Data Networks, Communications and Computers (DNCOCO'06), Bucharest, Romania, 16-18 oct. 2006, pg.168-173, ISBN: 960-8457-54-8, ISSN: 1790-5117.
70. M.S. Vlad, R.Tătoiu, V.Sgârciu – *Future Security Systems – Storing Biometrics on Smart Cards*, preprints, vol.1 CSCS 16, Bucharest, 22-25 May 2007, pg.503-508, ISBN 978-973-718-741-3 sau ISBN 978-973-718-742-0.
71. M.S. Vlad, M.Ceapâru, V.Sgârciu – *Product Traceability – Simulation with Contactless Smart Cards*, preprints, vol.1 CSCS 16, Bucharest, 22-25 May 2007, pg.509-514, ISBN 978-973-718-741-3 sau ISBN 978-973-718-742-0.

72. C.Coșoi, M.S.Vlad, V.Sgârciu – *Image Retrieval System Inspired from Antispam Filters*, preprints, vol.3, CSCS 16, Bucharest, 22-25 May 2007, pg.33-37, ISBN 978-973-718-741-3 sau ISBN 978-973-718-744-4.
73. M.Argeșanu, V.Sgârciu – *Remote Control Device Manager for Smart Transducers Based on HART Communication Protocol*, preprints, vol.3, CSCS 16, Bucharest, 22-25 May 2007, pg.134-138, ISBN 978-973-718-741-3 sau ISBN 978-973-718-744-4.
74. I. Rancea , V. Sgarciu, D. Dichiu - *A Case Study about Information Security Management Systems*, CSCS17 – the 17th International Conference on Control Systems and Computer Science, vol. 1 pp 381-385, ISSN 2066-4451.
75. A.C.Cosoi, B.Dumitru, V.Sgarciu , M.St.Vlad , M.Corduneanu - *The Romanian Blogosphere as a Social Fractal*, IAFA 2009, vol.3, pp 36-40, ISSN: 2066-4451
76. D.C.Nedeia, V.Sgarciu - *Image Watermarking Schemes based on SVD-DCT and SVD-DWT – Robust but Ambiguous*, IAFA 2009, vol.3, pp 127-134, ISSN: 2066-4451
77. D.Nasui, I.Rancea, V.Sgarciu, D.Dichiu, B.Oprea, D.Saru, I.Catana, M.Ceaparu, C.Tanase, C.Ene, C.Negulescu - *Supervising Semi-autonomous Mobile Robots Using Safe-Mobile Wireless Units*, proceedings of RAAD 2009 – the 18th International Workshop on Robotics in Alpe-Adria-Danube Region, ISBN 978-606-521-315-9, May 2009, pp.95-99.
78. Mohirta M., Cernian A.S., Carstoiu D, Vladu A.M., Olteanu A., Sgarciu V., “A Semantic Web News Aggregator”, 6th IEEE International Symposium on Applied Computational Intelligence and Informatics (SACI 2011), pp. 285-289, Timisoara, Romania.
79. Stamatescu G., Römer K., Ludwig R., Ibrahim S., Sgarciu V., Work in Progress: MiceNet: Monitoring Behaviour of Laboratory Mice with Sensor Networks, IEEE DCOSS 2011, Barcelona, Spain, pp. 1-3, ISBN 978-1-4577-0512-0.
80. Cernian A., Florea I., Carstoiu D., Sgarciu V., “The Design and Validation of an Automatic Email Clustering System Based on Semantics”, The 6th IEEE International Conference on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications, Prague, Czech Republic, 2011.
81. Cernian A.S., Carstoiu D., Sgarciu V., Florea I., “Improving the Quality Assurance Process in a Software Company by Automatically Clustering Bugs”, Proceedings of the 1st Doctoral Symposium on Future Internet Enterprise Systems, Bucharest, Romania, ISSN 2247-6040, pp. 101 – 105, 2011
82. Olteanu A., Ionita A.D., Stamatescu Gr., Sgarciu V., Ionescu Tr., Cernian A., “Educational Content Based on Models for Pressure Measurement”, The 18th International Conference on Control Systems and Computer Science- CSCS18, vol. 2, pag. 687-693, 2011, Bucuresti, Romania
83. Cernian A., Bertesteanu A., Sgarciu V., Carstoiu D., Saru D., Olteanu A., “Using Natural Language to Query an Automatic Control Disciplines’ Ontology”, The 18th International Conference on Control Systems and Computer Science- CSCS18, vol. 2, pag. 819-824, 2011, Bucuresti, Romania
84. M. Vlad, C. Nuta, M. S. Vlad, V.Sgarciu - Solutions for a Secure Java Servlet Development, ISBN: 978-1-61804-044-2, pp.169-174, WSEAS'11 Drobeta Turnu Severin.
85. A. Cernian, V.Sgarciu - The Design and Implementation of an Experimental Model for Secure Management of Personal Data Based on Electronic Identity Card and PKI Infrastructure, *INCOM '12, Proceedings, 14th IFAC Symposium Information Control Problems in Manufacturing*, Bucharest, 23-25 May, 2012, *IFAC Proceedings Volumes (IFAC Papers Online, 14 (PART 1) , pp. 1697-1701.*
86. M.Caraivan, V.Dache, V.Sgarciu - Deploying Underwater Sensors Safe-Net in Offshore Drilling Operations Surrounding Areas Using Remote Operated Vehicles, *INCOM '12, Proceedings, 14th IFAC Symposium Information Control Problems in Manufacturing*, Bucharest, 23-25 May, 2012.
87. A.Olteanu, A.Cernian, V.Sgarciu - The Design and Validation of an Experimental Model for the Secure and Efficient Medical Services based on PKI Infrastructures and Smart-Cards, *INCOM '12, Proceedings, 14th IFAC Symposium Information Control Problems in Manufacturing*, Bucharest, 23-25 May, 2012, *IFAC Proceedings Volumes (IFAC Papers Online, 14 (PART 1) , pp. 1666-1671.*
88. V.Dache, M.Caraivan, V.Sgarciu - Advanced Building Energy Management Systems, Optimize Power Consumption Using IP Base Control Improved Power Grid Stability, *INCOM '12, Proceedings, 14th IFAC Symposium Information Control Problems in Manufacturing*, Bucharest, 23-25 May, 2012.

89. Stamatescu G., Sgarciu V. - Evaluation of wireless sensor network monitoring for indoor spaces, *Proceedings – 2012 International Symposium on Instrumentation and Measurement, Sensor Network and Automation, IMSNA*, art. no. 6324525 , pp. 107- 111.
90. G. Sterpu, G. Stamatescu, V. Sgarciu, Sistem Inteligent de monitorizare a condiției mașinilor bazat pe analiza vibrațiilor, Conferința națională NIDays 2013, 9 Octombrie 2013, București.
91. Stamatescu, Grigore; Sterpu, George; Sgarciu, Valentin - VIBSYS: Integrated Didactic and Research Platform for Vibration Analysis , Conference: 4th International Symposium on Electrical and Electronics Engineering (ISEEE) Location: Dunarea de Jos Univ Galati, Galati, ROMANIA Date: OCT 11-13, 2013, indexat ISI, SCOPUS.
92. Nasui, Dorel; Sgarciu, Valentin; Cernian, Alexandra - Cloud-Based Application Development Platform for Secure, Intelligent, Interlinked and Interactive Infrastructure, 8th IEEE International Symposium on Applied Computational Intelligence and Informatics (SACI) Location: Politehnica Univ Timisoara, Fac Automat & Comp, Timisoara, ROMANIA Date: MAY 23-25, 2013, indexat ISI, SCOPUS.
93. Caraivan, Mitrut; Dache, Valentin; Sgarciu, Valentin - Simulation scenarios for deploying underwater safe-net sensor networks using remote operated vehicles, 19th International Conference on Control Systems and Computer Science Location: Bucharest, ROMANIA Date: MAY 29-31, 2013, indexat ISI, SCOPUS.
94. Olteanu, Adriana; Stamatescu, Grigore; Ionita, Anca Daniela, Valentin Sgarciu - Enhanced Data Integration for LabVIEW Laboratory Systems, Conference: 8th International Symposium on Advanced Topics in Electrical Engineering (ATEE) Location: Bucharest, ROMANIA Date: MAY 23-25, 2013, indexat ISI, SCOPUS.
95. Caraivan Mitrut Corneliu, Dache Valentin, Sgarciu Valentin - Common Framework Model for Multi-purpose Underwater Data Collection Devices Deployed with Remotely Operated Vehicles, The 7th IEEE International Conference on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications 12-14 September 2013, Berlin, Germany.
96. Stamatescu G., Popescu D., Sgarciu V., MICARES: Mote Expansion Module for Gas Sensing Applications, 7th IEEE International Conference on Intelligent Data Acquisition and Advanced Computing Systems, IDAACS 2013, September 12-14, Berlin, Germany, pp. 504-508, ISBN 978-1-4799-1429-6.

Lista granturilor si contractelor de cercetare (2000-2016)

◆ Internationale

1. *Sistem integrat de aplicatii folosind Smart Card-uri*, Contract Leonardo da Vinci nr.RO/2003/ PL 91078/S.
2. *Knowledge and Know How Transfer for Continuous Improvement Quality of Learning Environments*, contract de mobilități Leonardo da Vinci nr.RO/2003/PL91007/Ex.
3. *Trasabilitatea și identificarea produselor folosind tehnologii bazate pe tag-uri RFID*, contract de mobilități Leonardo da Vinci nr.RO/2004/PL93026/S.
4. *Analiza fiabilității și prevenirea riscurilor în sistemele de securitate*, contract de mobilități Leonardo da Vinci nr.RO/2005/PL95055/MTD.
5. *Tehnici moderne de identificare automată*, contract de mobilități Leonardo da Vinci nr. RO / 2006 / PL97046/S.
6. *Securizarea și optimizarea sistemelor automate de control acces și identificare personală automată folosind agenți inteligenți*, Contract în cadrul programul de cooperare bilaterală cu Slovenia, perioada 2005-2007.

◆ Nationale

1. *Scoala de studii avansate doctorala în domeniul calitatii, fiabilității, securității și riscului sistemelor tehnice*, contract 7430/11.09.2000, beneficiar CNCIS-MEC, perioada 2000-2002, membru.
2. *Metode avansate de supraveghere a proceselor tehnologice*, Contract 836/96 cu act aditional nr.122/I/2000, tema A8, beneficiar ANSTI, director

3. *Sistem de programe utilizate in domeniul serviciilor publice si private folosind tehnologii avansate bazate pe cartele inteligente*, Contract nr.6111/2000, tema B57, beneficiar ANSTI, director.
4. *Dezvoltarea unor metode moderne de supraveghere cu detectia si diagnoza incidentelor in cadrul conceptului de Building Automation*, contract nr.37124/2000, tema nr.6, cod CNCISIS 1078, beneficiar MEN, perioada 2000 - 2002.
5. *Sistem programe de identificare automată personală utilizând tehnologii avansate pe bază de cartele inteligente*, Contract nr.538/2000, beneficiar AMCSIT-Politehnica, programul național RELANSIN, perioada 2000 - 2002.
6. *Sistem programe pentru tranzacții electronice on-line folosind tehnologii avansate pe bază de smart card-uri*, Contract nr. 40528/05.11.2003, tema nr.46, cod CNCISIS 147, beneficiar MECT, perioada 2003 – 2005.
7. *Control avansat si noi tehnologii informatice- canti, cluster interdisciplinar de laboratoare: 11- instrumentatie, semnale si sisteme; 12- arhitecturi de sistem in standarde deschise pentru retele de productie si servicii integrate; 13- sisteme de calcul si tehnologia informatiei*, Cod CNCISIS:90, Perioada de derulare a grantului: 2006-2008.
8. *Sistem inglobat bazat pe telesenzorica pentru monitorizarea si controlul parametrilor in sisteme distribuite pe arii largi* - CEEX INFOSOC 2006-2008
9. *L2- Arhitecturi de sistem in standarde deschise pentru retele de productie si servicii integrate* – CNCISIS 2006-2008.
10. *Studiul fenomenelor exotice în sisteme nucleare microscopice*, Contract nr.4-59/04.11.2004, beneficiar M.Ed.C.-programul CERES, director de contract din partea UPB, 2006.
11. *Demonstrator tehnologic pentru managementul cartilor electronice de identitate bazat pe smartcarduri multiaplicatie – SMCID*, Contract nr.41R/21.12.2005, beneficiar M.Ed.C. – Agenția Națională de Cercetare Științifică – Agenția Spațială Română, Grupul Interministerial pentru Cercetarea în Domeniul Securității, director de proiect din partea UPB, 2006.
12. *Cercetari asupra dinamicii spatio-temporale a campului magnetic terestru vizand construirea unor modele geomagnetice unitare pentru teritoriul Romaniei integrate in context european si global* - contract CEEX - 2006-2008, beneficiar AMTRANS, director de proiect din partea UPB, coordonator proiect Institutul de Geodinamica „Sabba S. Stefanescu” al Academiei Romane.
13. *Sistem integrat pentru dezvoltarea de tranzactii electronice securizate in tehnologie open-platform*, cod CNCISIS 655, 2007, director.
14. *Serviciu de posta electronica nerepudiabila securizata cu valoare legala SPENS* - AMCSIT, 139/19.08.2008, director din partea UPB.
15. *Sistem integrat de management al parcarilor urbane, SIMPARK*, AMCSIT, 168/09.07.2008, director din partea UPB.
16. *Servicii medicale electronice eficiente si sigure bazate pe infrastructuri PKI si smart card-uri*, CNMP Parteneriate, contract 12125/01.10.2008, director.
17. *Platforma informatica integrata pentru managementul securizat al datelor personale bazata pe smart card-uri si infrastructuri PKI*, CNMP Parteneriate, contract 82105/01.10.2008, director

• **Brevete**

1. V. Sgarciu, M.St. Vlad, M. Stroeie - Sistem informatic de stocare, selectare si afisare a datelor aeromagnetice de pe teritoriul Romaniei AIDYGEF, CD interactiv – cerere de brevet depusă.
2. C. Cosoi, V. Sgarciu, M. Vlad - Spam Filtering Using Feature Relevance Assignment in Neural Networks deus la USPTO, cerere de brevet depusă în 2008, publicată în 2012.
3. **Method and Electronic Expansion Device with Electro-Chemical Gas Sensors for Intelligent Sensory Nodes**, Patent No.: RO129806-A2, Patent Assignee: ASTI CONTROL SA; ASOC CENT CERC SI IND IN ROBOTICA INFORMATICA IND SI MAT Inventor(s): Stamatescu, G., Popescu, D., Sgarciu, V.