

Professor Valentin SGÂRCIU, Ph.D.

List of scientific publications (2000-2016)

● Monographs, Book chapters (international publications)

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

● Monographs, Book chapters (national publications)

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.

● Articles in journals and conference proceedings (indexed 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.
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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.
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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
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29. Cosoi, A.C.; Vlad, M.S.; Sgarciu, V. - *Heuristic Image Recognition*, DAAAM 2008, proceedings, pg.0311-0312
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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
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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
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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
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● **Articles in journals and conference proceedings (indexed on other databases)**

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5. G.Mateescu, V.Sgârciu - *Cloud Computing Audit*, U.P.B. Sci. Bull., Series C, Vol. 77, Iss. 3, 2015 ISSN 2286-3540
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