

Listă de lucrări

a) Lista celor maximum 10 lucrări considerate de candidat a fi cele mai relevante pentru realizările profesionale proprii

1. Duma, R., Dobra, P., Trusca, M., & Sita, I.-V (2013). Digital motor control library Advances in Intelligent Systems and Computing (Vol. 187 AISC, pp. 367-378) ISSN: 21945357 ISBN: 978-364232547-2, DOI: 10.1007/978-3-642-32548-9-26.
2. Sita, I.-V (2012). Design and development of building management systems using KNX devices. Quality - Access to Success, 13(SUPPL.5), 525-528. ISSN: 15822559.
3. Duma, R., Dobra, P., Dobra, M., & Sita, I.-V (2012). Experimental tuning of dc motors. Quality - Access to Success, 13(SUPPL.5), 353-356. ISSN: 15822559.
4. Sita, I.-V, & Dobra, M. (2012). Water Transfer Control System for Automated Buildings. Automation Computers Applied Mathematics, 21(4). ISSN 1221-437X.
5. Sita, I.-V, & Dobra, P. (2013). Universal Communication Node for Building Automation Systems. Paper presented at the International Conference on Smart Systems in All Fields of the Life Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Biomechatronics, Neurorehabilitation and Human Motricities, ICMERA13, Bucharest, published in Applied Mechanics and Materials Vol.436, pp.435-444, ISBN:978-3-03785-898-1.
6. Sita, I.-V, Dobra, P., Dobra, M., & Muresan, V. (2013). Household Water Tank Temperature Control. Paper presented at the International Conference on Smart Systems in All Fields of the Life Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Biomechatronics, Neurorehabilitation and Human Motricities, ICMERA2013, Bucharest, published in Applied Mechanics and Materials Vol.436, pp.417-426, ISBN:978-3-03785-898-1.
7. Dobra M., Dobra P., Sita I. V., Efficient implementation of sliding mode control for BLDC PM motor using TMS320F28335 microcontroller, 6th European Embedded Design in Education and Research Conference, EDERC 2014, Milano, Italy, pp. 70-74, ISBN 978-1-4799-6842-8.
8. Sita I.V., Vlad Mureșan V., “Neural Temperature Control in a Water Cylinder”, 9th International Conference on Modeling and Optimization of the Aerospace, Robotics, Mechatronics, Machines-Tools, Mechanical Engineering and Human Motricity Fields, (OPTIROB 2014), 26-29 Iunie, 2014, Mangalia, România, Applied Mechanics and Materials, Vol. 555, 2014, pag. 466-475, ISBN-13: 978-3-03835-111-5.
9. Duma, R., Dobra, P., Sita, I.-V, & Petreus, D. (2012). Rapid control prototyping toolbox for the Stellaris LM3S8000 microcontrollers. Paper presented at the EDERC 2012 - Proceedings of the 5th European DSP in Education and Research Conference. ISBN: 978-146734595-8, DOI: 10.1109/EDERC.2012.6532254.

10. Duma, R., Dobra, P., Dobra, M., & Sita, I.-V (2011). RAPID CONTROL PROTOTYPING INTEGRATED CONNECTIVITY LIBRARIES. Quality and Innovation in Engineering and Management, 267-272. ISBN: 978-973-662-614-2, WOS:000312344600059.

b) Teza de doctorat

Titlul: „Sisteme de monitorizare și control ale clădirilor”

Conducător științific : Prof.dr.ing. Petru Dobra

Data susținerii publice: 09.12.2013, ordin confirmare nr. 20 din 21 ianuarie 2014.

c) Brevete de invenție și alte titluri de proprietate industrială

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d) Cărți și capitole în cărți

1. M. Dobra, I.V. Sita, Teoria Sistemelor. Îndrumător de laborator. ISBN 978-973-662-979-2, Ed. UTPress, Cluj- Napoca, 2014, 70 pp.

e) Articole/studii in extenso, publicate în reviste din fluxul științific internațional principal

1. Duma, R., Dobra, P., Trusca, M., & Sita, I.-V (2013). Digital motor control library Advances in Intelligent Systems and Computing (Vol. 187 AISC, pp. 367-378) ISSN: 21945357 ISBN: 978-364232547-2, DOI: 10.1007/978-3-642-32548-9-26.
2. Sita, I.-V (2012c). Design and development of building management systems using KNX devices. Quality - Access to Success, 13(SUPPL.5), 525-528. ISSN: 15822559.
3. Duma, R., Dobra, P., Dobra, M., & Sita, I.-V (2012d). Experimental tuning of dc motors. Quality - Access to Success, 13(SUPPL.5), 353-356. ISSN: 15822559.
4. Sita, I.-V, & Dobra, M. (2012). Water Transfer Control System for Automated Buildings. Automation Computers Applied Mathematics, 21(4). ISSN 1221-437X.

f) Publicații in extenso, apărute în lucrări ale principalelor conferințe internaționale de specialitate

1. Manescu Radu, Valentin Sita, “Heating efficiency with multiple boilers. Case study for single, two and three boiler operation”, 20th International Conference on System

- Theory, Control and Computing, 13 - 15 October 2016, Sinaia, Romania, pp. 79-83, ISBN 978-1-5090-2719-4.
2. V. Mureșan, M. Abrudean, Tiberiu Coloși, I. Clitan, C. Bondici, M. L. Ungureșan, V. Sita, "Real Power and Frequency Control – Case Study for a Synchronous Generator from the Structure of a Hydroelectric Power Plant", OPTIROB 2016, Applied Mechanics and Materials, Vol. 841, pp. 122-129, 2016, DOI: 10.4028/www.scientific.net/AMM.841.122.
 3. Radu Manescu, Ioan Valentin Sita, Petru Dobra, "Building Energy Simulation with On-Site Weather Station", International Conference on Aerospace, Robotics, Biomechanics, Neurorehabilitation, Mechanical Engineering and Manufacturing Systems, Bucharest 4-6 Nov 2016, pp 88-92, ISBN 978-3-03835-667-7.
 4. I.V. Sita, P. Dobra, D. Moga, R. Manescu, V. Muresan, I. Clitan. "Optimization of residential heating systems using accumulators". In Proceedings of 2015 IEEE 15th International Conference on Environment and Electrical Engineering Conference, pp. 2165 - 2170, ISBN 978-1-4799-7992-9, June 10-13, 2015. DOI:10.1109/EEEIC.2015.7165514
 5. D. Moga, I. V. Sita, N. Stroia, P. Dobra, R. Moga, and D. Petreus, "Sensing and control strategies in tracking solar systems," in 20th International Conference on Control Systems and Computer Science (CSCS20-2015), (Bucharest, Romania), pp. 989 – 995, May 27 – 29 2015. DOI: 10.1109/CSCS.2015.143
 6. I. Clitan, D. Moga, V. Muresan, N. Stroia, I.V. Sita, C. Lungoci, I.A. Mironiuc. "Digital temperature control for an hyperthermic intraperitoneal chemotherapy equipment," in 20th International Conference on Control Systems and Computer Science (CSCS20-2015), (Bucharest, Romania), pp. 98 – 103, May 27 - 29 2015. DOI:10.1109/CSCS.2015.63.
 7. C. Lungoci, V. Muresan, D. Moga, I. Clitan, R. Moga, V. Sita, T. Oniu, A. Mironiuc. Advanced temperature control for innovative HIPEC equipment. Procedia Computer Science, vol. 64, 2015, pp. 497–505. DOI: 10.1016/j.procs.2015.08.550. Conference on ENTERprise Information Systems/International Conference on Project MANagement/Conference on Health and Social Care Information Systems and Technologies, CENTERIS/ProjMAN / HCist 2015 October 7-9, 2015, Vilamoura, Algarve, Portugal.
 8. Dobra, Mirela; Astilean, Adina; Dobra, Petru; Sita, Ioan-Valentin; Control Loops Comparative Study Based on IR Thermal Imaging for Electrical Drives with BLDC PM Motors;Control Systems and Computer Science (CSCS), 2015 20th International Conference on;78-82;2015, DOI: 10.1109/CSCS.2015.145.
 9. Dobra M., Dobra P., Sita I. V., "Efficient implementation of sliding mode control for BLDC PM motor using TMS320F28335 microcontroller", 6th European Embedded Design in Education and Research Conference, EDERC 2014, Milano, Italy, pp. 70-74, ISBN 978-1-4799-6842-8.
 10. Dobra P., Dobra M., Moga D., Sita I.V., Munteanu R.A., "Model based fault detection for electrical drives with BLDC motor", Automation Quality and Testing Robotics (AQTR), 2014 IEEE International Conference on, 2014, DOI: 10.1109/AQTR.2014.6857849.

11. Sita I.V., Vlad Mureșan V., “Neural Temperature Control in a Water Cylinder”, 9th International Conference on Modeling and Optimization of the Aerospace, Robotics, Mechatronics, Machines-Tools, Mechanical Engineering and Human Motricity Fields, (OPTIROB 2014), 26-29 Iunie, 2014, Mangalia, România, Applied Mechanics and Materials, Vol. 555, 2014, pag. 466-475, ISBN-13: 978-3-03835-111-5.
12. Sita, I.-V, & Dobra, P. (2013). “Universal Communication Node for Building Automation Systems”. Paper presented at the International Conference on Smart Systems in All Fields of the Life Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Biomechatronics, Neurorehabilitation and Human Motricities, ICMERA13, Bucharest, published in Applied Mechanics and Materials Vol.436, pp.435-444, ISBN:978-3-03785-898-1.
13. Sita, I.-V, Dobra, P., Dobra, M., & Muresan, V. (2013). “Household Water Tank Temperature Control”. Paper presented at the International Conference on Smart Systems in All Fields of the Life Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Biomechatronics, Neurorehabilitation and Human Motricities, ICMERA2013, Bucharest, published in Applied Mechanics and Materials Vol.436, pp.417-426, ISBN:978-3-03785-898-1.
14. Sita, I.-V, & Fărcaș, A. C. (2013). Interfacing City Resources Management System with SIMATIC WinCC. Paper presented at the IFAC Workshop on Convergence Of Information Technologies And Control Methods With Power Systems, Cluj-Napoca, Romania, pp. 113-118. ISBN: 978-3-902823-32-8, ISSN: 1474-6670, DOI 10.3182/20130522-3-RO-4035.00030.
15. Duma, R., Dobra, P., Sita, I.-V, & Petreus, D. (2012). Rapid control prototyping toolbox for the Stellaris LM3S8000 microcontrollers. Paper presented at the EDERC 2012 - Proceedings of the 5th European DSP in Education and Research Conference. ISBN: 978-146734595-8, DOI: 10.1109/EDERC.2012.6532254.
16. Duma, R., Dobra, P., Trusca, M., Beta, B., & Sita, I.-V (2012, 12-14 Oct. 2012). Embedded control of electrical motors. Paper presented at the System Theory, Control and Computing (ICSTCC), 2012 16th International Conference on. ISBN: 978-606834848-3.
17. Sita, I.-V (2012). KNX Building Automation Systems using SIEMENS LOGO! Controllers. Paper presented at the KNX Scientific Conference, 5th and 6th November 2012, University of Las Palmas G.C., Las Palmas G.C., Spain, ISBN/EAN: 9789081095143.
18. Sita, I.-V, & Dobra, P. (2012). KNX building automations interaction with City Resources Management System. Paper presented at the 7th International Conference INTER-ENG 2013, Interdisciplinarity in Engineering, Targu Mures, Romania, October 10th – 11,2013, published as one dedicated issue in Elsevier's Procedia Technology Journal (ISSN: 2212-0173).
19. Sita, I.-V, & Trusca, M. (2012). Redundant Application of WinCC Software to Building Automation Systems. Paper presented at the 2012 IEEE International Conference on Automation, Quality and Testing, Robotics, Cluj-Napoca, Romania, IEEE Catalog Number: CFP12AQT-PRT, ISBN: 978-1-4673-0702-4.

20. Sita, I.-V (2012a). Building control, monitoring, safety and security using collaborative systems. Paper presented at the Proceedings of the 2012 4th International Conference on Intelligent Networking and Collaborative Systems, INCoS 2012, Bucharest. ISBN: 978-076954808-1, DOI: 10.1109/iNCoS.2012.107.
21. Sita, I.-V (2012b). Collaborative systems for building automation. Paper presented at the Proceedings of the 2012 4th International Conference on Intelligent Networking and Collaborative Systems, INCoS 2012, Bucharest. ISBN: 978-076954808-1, DOI: 10.1109/iNCoS.2012.98.
22. Sita, I.-V (2012e). Train comfort, access and security using KNX and LOGO! controllers. Paper presented at the Electrical Systems for Aircraft, Railway and Ship Propulsion, ESARS, Bologna. ISSN: 21659400 ISBN: 978-146731370-4, DOI: 10.1109/ESARS.2012.6387411.
23. Trusca, M., Petreus, D., Munteanu, R. A., Sita, I.-V, & Dobra, P. (2012). Wireless low cost embedded solution for electrical motors control. Paper presented at the EDERC 2012 - Proceedings of the 5th European DSP in Education and Research Conference. ISBN: 978-146734595-8, DOI: 10.1109/EDERC.2012.6532243.
24. Dobra, P., Truşcă, M., Sita, I.-V, Munteanu, R. A., & Munteanu, M. (2011). Model based approach in fault detection and diagnosis for DC motor. Paper presented at the SDEMPED 2011 - 8th IEEE Symposium on Diagnostics for Electrical Machines, Power Electronics and Drives. ISBN: 978-142449303-6.
25. Duma, R., Dobra, P., Dobra, M., & Sita, I.-V (2011a, 14-16 Oct. 2011). Low cost embedded solution for BLDC motor control. Paper presented at the System Theory, Control, and Computing (ICSTCC), 2011 15th International Conference on. ISBN: 978-145771173-2.
26. Duma, R., Dobra, P., Dobra, M., & Sita, I.-V (2011b). RAPID CONTROL PROTOTYPING INTEGRATED CONNECTIVITY LIBRARIES. Quality and Innovation in Engineering and Management, 267-272. ISBN: 978-973-662-614-2, WOS:000312344600059.
27. Sita, I.-V (2011). Application of WinCC SCADA Software to Building Automation Systems. Paper presented at the First International Workshop On Cyber Physical Systems, Bucharest, Romania.
28. Duma, R., Dobra, P., Petreus, D., Sita, I.-V, & Adrian Munteanu, R. (2010). Real-time BLDC motor control using the Stellaris LM3S8962 microcontroller. Paper presented at the EDERC 2010 - European DSP in Education and Research Conference, Proceedings. ISBN: 978-095520474-6.
29. Duma, R., Petreus, D., Sita, I.-V, Dobra, P., & Rusu, A. (2010). Rapid Control Prototyping toolbox for Renesas M32C87 microcontroller. Paper presented at the 2010 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2010 - Proceedings, Cluj-Napoca. ISBN: 978-142446725-9, DOI: 10.1109/AQTR.2010.5520902.
30. Trusca, M., Dobra, P., Sita, I.-V, & Farcas, A. (2010). Low-cost SMC implementation for small mobile robot. Paper presented at the 18th Mediterranean Conference on

Control and Automation, MED'10 - Conference Proceedings, Marrakech. ISBN: 978-142448092-0, DOI: 10.1109/MED.2010.5547783.

g) Alte lucrări și contribuții științifice sau, după caz, din domeniul creației artistice

1. Sita, I.-V (2013). City Resources Management System based on KNX technology. Paper presented at the Knowledge Engineering: Principles and Techniques Conference – KEPT, Cluj-Napoca, Romania.

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Semnătura

Dr. Ing. Sita Ioan Valentin