Lista lucrărilor

Ș.l. dr. ing. George Dan Moiș

Iulie 2021

1 Cele mai relevante 10 lucrări – cronologic

1. Silviu C. Folea and George Mois. A low-power wireless sensor for online ambient monitoring. *IEEE Sensors Journal*, 15(2):742–749, 2015
2. George Mois, Teodora Sanislav, and Silviu C. Folea. A cyber-physical system for environmental monitoring. *IEEE Transactions on Instrumentation and Measurement*, 65(6):1463–1471, 2016
3. Teodora Sanislav, Sherali Zeadally, and George Dan Mois. A cloud-integrated, multilayered, agent-based cyber-physical system architecture. *Computer*, 50(4):27–37, 2017
4. George Mois, Silviu Folea, and Teodora Sanislav. Analysis of three iot-based wireless sensors for environmental monitoring. *IEEE Transactions on Instrumentation and Measurement;* 66(8):2056–2064, 2017
5. Teodora Sanislav, Sherali Zeadally, George Dan Mois, and Silviu Corneliu Folea. Wireless energy harvesting: Empirical results and practical considerations for internet of things. *Journal of Network and Computer Applications*, 121:149–158, 2018
6. Sherali Zeadally, Teodora Sanislav, and George Dan Mois. Self-adaptation techniques in cyber-physical systems (cpss). *IEEE Access*, 7:171126–171139, 2019
7. George Dan Mois, Horia Hedesiu, and Silviu Folea. *Digital Design Laboratory using LabVIEW*. Mediamira, 2020
8. Silviu Corneliu Folea and George Dan Mois. Lessons learned from the development of wireless environmental sensors. *IEEE Transactions on Instrumentation and Measurement*, 69(6):3470–3480, 2020
9. Teodora Sanislav, George Dan Mois, Sherali Zeadally, and Silviu Corneliu Folea. Energy harvesting techniques for internet of things (iot). *IEEE Access*, 9:39530–39549, 2021

2 Teza de doctorat

1. George Dan Mois. *Autoîntreținere în sisteme digitale.* PhD thesis, Universitatea Tehnică din Cluj-Napoca, 2011

3 Brevete de invenție

1. Joan Figueras Pàmies, Liviu Miclea, and George Dan Mois. Metodă pentru modificarea dinamică a frecvenței într-o unitate aritmetică bazată pe detecția on-line a erorilor, nr. 130282, 2018

4 Capitole de carte ca autor

1. Teodora Sanislav, George Dan Mois, Silviu Folea, and Liviu Miclea. *Integrating wireless sensor networks and cyber-physical systems: challenges and opportunities*, pages 47–76. Control, Robotics & Sensors. Institution of Engineering and Technology, 2016

2. Mihai Hulea, George Dan Mois, and Silviu Folea. *Dynamic Wi-Fi Reconfigurable FPGA Based Platform for Intelligent Traffic Systems*, pages 377–396. IntechOpen, 2011

5 Materiale didactice (cărți)

1. George Dan Mois. *Introducere în programarea circuitelor FPGA*. U.T.Press, 2015. Îndrumător de laborator

2. George Dan Mois, Horia Hedesiu, and Silviu Folea. *Digital Design Laboratory using LabVIEW*. Mediamira, 2020

6 Articole în reviste cotate indexate ISI

1. Teodora Sanislav, George Dan Mois, Sherali Zeadally, and Silviu Corneliu Folea. Energy harvesting techniques for internet of things (iot). *IEEE Access*, 9:39530–39549, 2021

2. Silviu Corneliu Folea and George Dan Mois. Lessons learned from the development of wireless environmental sensors. *IEEE Transactions on Instrumentation and Measurement*, 69(6):3470–3480, 2020

3. Sherali Zeadally, Teodora Sanislav, and George Dan Mois. Self-adaptation techniques in cyber-physical systems (cpss). *IEEE Access*, 7:171126–171139, 2019

4. T. Sanislav, S. Zeadally, G.D. Mois, and H. Fouchal. Reliability, failure detection and prevention in cyber-physical systems (cpss) with agents. *Concurrency Computation*, 31(24), 2019

5. Teodora Sanislav, Sherali Zeadally, George Dan Mois, and Silviu Corneliu Folea. Wireless energy harvesting: Empirical results and practical considerations for internet of things. *Journal of Network and Computer Applications*, 121:149–158, 2018

6. George Dan Moiş, Teodora Sanislav, Silviu Corneliu Folea, and Sherali Zeadally. Performance evaluation of energy-autonomous sensors using power-harvesting beacons for environmental monitoring in internet of things (iot). *Sensors*, 18(6), 2018

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8. Teodora Sanislav, Sherali Zeadally, and George Dan Mois. A cloud-integrated, multilayered, agent-based cyber-physical system architecture. *Computer*, 50(4):27–37, 2017

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10. Silviu C. Folea, George Moiş, Cristina I. Muresan, Liviu Miclea, Robain De Keyser, and Marcian N. Cirstea. A portable implementation on industrial devices of a predictive controller using graphical programming. *IEEE Transactions on Industrial Informatics*, 12(2):736–744, 2016

11. Teodora Sanislav, George Mois, and Liviu Miclea. An approach to model dependability of cyber-physical systems. *Microprocessors and Microsystems*, 41:67–76, 2016

12. Silviu C. Folea and George Mois. A low-power wireless sensor for online ambient monitoring. *IEEE Sensors Journal*, 15(2):742–749, 2015

13. Cristina I. Muresan, Silviu Folea, George Mois, and Eva H. Dulf. Development and implementation of an fpga based fractional order controller for a dc motor. *Mechatronics*, 23(7):798–804, 2013. 1. Fractional Order Modeling and Control in Mechatronics 2. Design, control, and software implementation for distributed MEMS (dMEMS)

14. S. C. Folea, M. Hulea, G. Mois, and V. Cosma. Wi-fi portable solution for distributed radon measurements. *Romanian Journal of Physics*, 58(Supplement):S126–S139, 2013

15. George Dan Mois, Stelian Flonta, Iulia Stefan, Szilard Enyedi, and Liviu Cristian Miclea. Distributed security in multi-agent systems. *Journal of Control Engineering and Applied Informatics*, 12(3):47–51, 2010

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1. Tudor Santejudean, Silviu Folea, and George Mois. Analysis of low-power operation for an environmental monitoring beacon. In *2020 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR)*, pages 1–5, 2020

2. George Mois, Zsolt Szilagyi, Teodora Sanislav, and Silviu Folea. An http-based environmental monitoring system using power harvesting. In *2017 21st International Conference on System Theory, Control and Computing (ICSTCC)*, pages 845–848, 2017

3. Teodora Sanislav, Sherali Zeadally, George Mois, and Hacène Fouchal. Multi-agent architecture for reliable cyber-physical systems (cps). In *2017 IEEE Symposium on Computers and Communications (ISCC)*, pages 170–175, 2017

4. Teodora Sanislav and George Mois. A dependability analysis model in the context of cyber-physical systems. In *2017 18th International Carpathian Control Conference (ICCC)*, pages 146–150, 2017

5. George Mois, Silviu Folea, Teodora Sanislav, and Liviu Miclea. A low-power psoc-based environmental monitoring system. In *2016 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR)*, pages 1–4, 2016

6. Teodora Sanislav, Karla Merza, George Mois, and Liviu Miclea. Cyber-physical system dependability enhancement through data mining. In *2016 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR)*, pages 1–5, 2016

7. George Moiş, Silviu Folea, Teodora Sanislav, and Liviu Miclea. Communication in cyber-physical systems. In *2015 19th International Conference on System Theory, Control and Computing (ICSTCC)*, pages 303–307, 2015

8. Teodora Sanislav, George Mois, and Liviu Miclea. A new approach towards increasing cyber-physical systems dependability. In *Proceedings of the 2015 16th International Carpathian Control Conference (ICCC)*, pages 443–447, 2015

9. Silviu Folea, George Mois, Cristina I. Muresan, Liviu Miclea, Robain De Keyser, and Marcian Cirstea. Implementation of an extended prediction self-adaptive controller using labviewtm. In *2015 IEEE 13th International Conference on Industrial Informatics (INDIN)*, pages 883–888, 2015

10. Silviu Folea, George Mois, Mihai Hulea, Liviu Miclea, and Vio Biscu. Data logger for humidity and temperature measurement based on a programmable soc. In *2014 IEEE International Conference on Automation, Quality and Testing, Robotics*, pages 1–4, 2014

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12. Cristina I. Muresan, George Mois, Silviu Folea, and Clara Ionescu. Alternative implementations of a fractional order control algorithm on fpgas. In *2013 International Conference on Reconfigurable Computing and FPGAs (ReConFig)*, pages 1–6, 2013

13. Cristina I. Muresan, Silviu Folea, and George Mois. Optimal implementation of advanced control methods on fpga targets. In *The 2013 RIVF International Conference on Computing Communication Technologies - Research, Innovation, and Vision for Future (RIVF)*, pages 209–214, 2013

14. Iulia Ştefan, George Moiş, Szilárd Enyedi, and Liviu Miclea. *A Load Balancing Algorithm for Multi-agent Systems*, pages 103–114. Springer Berlin Heidelberg, Berlin, Heidelberg, 2012

15. Mădălin-Ioan Neagu, George Dan Moiş, and Liviu Cristian Miclea. On-line error detection for tuning dynamic frequency scaling. In *Proceedings of 2012 IEEE International Conference on Automation, Quality and Testing, Robotics*, pages 290–295, 2012

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17. Silviu Folea, George Mois, and Liviu Miclea. Power quality measurement system using fpgas. In *2012 13th International Conference on Optimization of Electrical and Electronic Equipment (OPTIM)*, pages 1280–1285, 2012

18. Iulia Stefan, Laura Vegh, George Mois, Stelian Flonta, Szilard Enyedi, and Liviu Miclea. Multi-agent Hierarchical System Based on ElGamal Decryption Algorithm With K+1 Access Levels. In Galis, A and Dillenseger, B, editor, *PROCEEDINGS OF THE SEVENTH INTERNATIONAL CONFERENCE ON AUTONOMIC AND AUTONOMOUS SYSTEMS (ICAS 2011)*, pages 51–56. IARIA, 2011. 7th International Conference on Autonomic and Autonomous Systems (ICAS), Venice, ITALY, MAY 22-27, 2011

19. George Dan Moiş, Stelian Flonta, Iulia Ştefan, Szilárd Enyedi, and Liviu Cristian Miclea. Reconfiguration security for hardware agents in testing. In *2010 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR)*, volume 2, pages 1–5, 2010

8 Articole în volumelele unor manifestări ştiinţifice indexate în alte baze de date internaţionale (BDI)

1. Teodora Sanislav, George Mois, Silviu Folea, Liviu Miclea, Giulio Gambardella, and Paolo Prinetto. A cloud-based cyber-physical system for environmental monitoring. In *2014 3rd Mediterranean Conference on Embedded Computing (MECO)*, pages 6–9, 2014

2. Silviu Folea, George Mois, Liviu Miclea, and Doru Ursutiu. Battery lifetime testing using labview^{TM}. In *2012 9th International Conference on Remote Engineering and Virtual Instrumentation (REV)*, pages 1–6, 2012

3. Mihai Hulea, Silviu Folea, Tiberiu Letia, and George Mois. A collaborative approach to autonomous single intersection control. In *2011 19th Mediterranean Conference on Control Automation (MED)*, pages 694–699, 2011

4. George Dan Moiş, Mihai Hulea, Silviu Folea, and Liviu Miclea. Self-healing capabilities through wireless reconfiguration of fpgas. In *2011 9th East-West Design Test Symposium (EWDTS)*, pages 22–27, 2011

5. G. Moiş, I. Ştefan, Sz. Enyedi, and L. Miclea. Reconfiguration and hardware agents in testing and repair of distributed systems. In *2010 East-West Design Test Symposium (EWDTS)*, pages 195–198, 2010

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