

Lista de lucrări

Kinga Ildikó Márton

TEZA DE DOCTORAT

Kinga Márton: „*Contribuții la generarea și testarea secvențelor de numere aleatoare destinate aplicațiilor criptografice*”, conducător științific: Prof.dr.ing. Iosif Ignat, septembrie 2011

CĂRȚI

Kinga Márton: „*Programarea calculatoarelor folosind limbajul C*”, Editura U.T.Press, ISBN 978-973-662-940-2 vol.1, 2014

LUCRĂRI ȘTIINȚIFICE

Articole publicate în cadrul unor reviste indexate ISI:

1. Tudor Patuleanu, **Kinga Marton**, Vasile Chis, Sebastian Toma, True random number sequences from gamma-decay using four extraction methods, Proceedings of the Romanian Academy, Special issue 2017, Cryptology Science, vol. 18, ISSN: 1454-9069, pp. 389-402.
2. **Kinga Marton**, Alexandra Zaharia, Sebastian Banescu, Alin Suciu, Randomness assessment of an unpredictable random number generator based on hardware performance counters, Romanian Journal of Information Science and Technology (ROMJIST), Volume 20, ISSN: 1453-8245, No. 2, 2017, pp. 136-160
3. **Kinga Marton**, Alin Suciu, Towards a methodology for randomness assessment: Challenges and pitfalls, Proceedings of the Romanian Academy, Special issue 2015, Cryptology Science, vol. 16, ISSN: 1454-9069, pp. 385-394.
4. Marek Sys, Zdenek Riha, Vashek Matyas, **Kinga Marton**, Alin Suciu, On the interpretation of results from the NIST Statistical Test Suite, Romanian Journal of Information Science and Technology, Volume 18, Number 1/2015, ISSN: 1453-8245, pp. 18–32
5. **Kinga Marton**, Alin Suciu, Christian Săcărea, Octavian Creț, Generation and testing of random numbers for cryptographic applications, Proceedings of the Romanian Academy Series A, Volume 13, Number 4/2012, ISSN: 1454-9069, pp. 368–377
6. **Kinga Marton**, Alin Suciu, Iosif Ignat, Randomness in digital cryptography: A survey, Romanian Journal of Information Science and Technology, Volume 13, Number 3/2010, ISSN: 1453-8245, pp. 219–240
7. Alin Suciu, Radu Alexandru Toma, **Kinga Marton** Parallel object-oriented implementation of the TestU01 statistical test suites, in Proceedings - 2014 IEEE 10th International Conference on

- Intelligent Computer Communication and Processing, ICCP 2014, pp. 311-315, 2014.
8. **Kinga Marton**, Vlad Baja, Alin Suciu, Parallel implementation of the matrix rank test for randomness assessment, in Proceedings - 2014 IEEE 10th International Conference on Intelligent Computer Communication and Processing, ICCP 2014, pp. 317-321, 2014.
 9. **Kinga Marton**, Katalin Nagy, Alin Suciu, Collaborative genealogy tree in the cloud, in Proceedings - 2013 IEEE 11th Roedunet International Conference, 2013.
 10. **Kinga Marton**, Mihai Homan, Alin Suciu, Ioan Rasa, The histogram test for randomness assessment, in Proceedings - 2013 IEEE 12th Roedunet International Conference, 2013.
 11. **Kinga Marton**, Peter Toth, Alin Suciu, Unpredictable random number generator based on the Performance Data Helper interface, in 14th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC 2012), pp. 335-340, 2012.
 12. Alin Suciu, Sebastian Banescu, **Kinga Marton**, Unpredictable random number generator based on hardware performance counters, In: Snasel V., Platos J., El-Qawasmeh E. (eds) Digital Information Processing and Communications. Communications in Computer and Information Science, vol 189. Springer, vol. 189, pp. 123-137, 2011.
 13. Alin Suciu, Tudor Carean, Andre Sez nec, **Kinga Marton**, Parallel HAVEGE, In: Wyrzykowski R., Dongarra J., Karczewski K., Wasniewski J. (eds) Parallel Processing and Applied Mathematics. PPAM 2009. Lecture Notes in Computer Science, vol 6068, PART II, Springer, pp. 145-154, 2010.
 14. **Kinga Marton**, Alin Suciu, Parallel ENT - ParENT, in Proceedings - 2009 IEEE 4th Balkan Conference in Informatics, pp. 28-32, 2009.
 15. Alin Suciu, **Kinga Marton**, Zoltan Antal, Data flow entropy collector, in 10th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC 2008), pp. 445-448, 2008.
 16. **Kinga Marton**, Adrian Coleșa, Glinda – Grid based distributed Linda system, in 9th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC 2007), pp. 349-352, 2007.

Articole publicate în cadrul unor manifestări științifice indexate BDI

17. **Kinga Marton**, Bolba Raluca, Alin Suciu, Counting bits in parallel, in Proceedings - 2017 IEEE 16th Roedunet International Conference, ISSN: 2247-5443, pp. 1-6, 2017.
18. **Kinga Marton**, Dan Patrascu, Alin Suciu, Perceptual evaluation of random number sequences using FileSeer+, Studia Universitatis Babeș-Bolyai - Series Informatica, Vol. LX, Number 1/2015, ISSN: 2065-9601, pp. 98-110.
19. Norbert Deak, Tamas Gyorfı, **Kinga Marton**, Lucia Vacariu, Octavian Cret, Highly efficient true random number generator in FPGA devices using Phase-Locked Loops, CSCS20: The 20th International Conference on Control Systems and Computer Science, May 2015, pp 453 – 458.
20. Alin Suciu, Radu Toma, **Kinga Marton**, Parallel implementation of the TestU01 statistical test suite, in Proceedings - 2012 IEEE 8th International Conference on Intelligent Computer Communication and Processing, ICCP 2012, pp. 317-322, 2012.

21. Alin Suciu, Daniel Lebu, **Kinga Marton**, Unpredictable random number generator based on mobile sensors, in Proceedings - 2011 IEEE 7th International Conference on Intelligent Computer Communication and Processing, ICCP 2011, pp. 445-448, 2011.
22. Alin Suciu, Petrut Cobarzan, **Kinga Marton**, The never ending problem of counting bits efficiently, in Proceedings 2011 - RoEduNet IEEE International Conference, 2011.
23. **Kinga Marton**, Alin Suciu, Dora Petricean, A parallel unpredictable random number generator, in Proceedings 2011- RoEduNet IEEE International Conference, 2011.
24. Alin Suciu, **Kinga Marton**, Emil Cebuc, Vasile Teodor Dadarlat, Gheorghe Sebestyen, Gathering entropy from the Grid with GridHAVEGE, in Proceedings - 2010 IEEE 6th International Conference on Intelligent Computer Communication and Processing, ICCP10, pp. 459-463, 2010.
25. Emil Cebuc, Alin Suciu, **Kinga Marton**, Simona Dolha, Lucian Muresan, Implementation of cryptographic algorithms on a grid infrastructure, in 2010 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2010 - Proceedings, vol. 2, pp. 137-142, 2010.
26. Alin Suciu, **Kinga Marton**, Iszabela Nagy, Ioana Pinca, Byte-oriented efficient implementation of the NIST statistical test suite, in 2010 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2010 - Proceedings, vol. 2, pp. 17-22, 2010.
27. Alin Suciu, Iszabela Nagy, **Kinga Marton**, Ioana Pinca, Parallel Implementation of the NIST Statistical Test Suite, in Proceedings of the IEEE International Conference on Intelligent Computer Communication and Processing - ICCP 2010, 2010, pp. 363-368

Articole publicate în cadrul unor reviste indexate în baze de date internaționale:

28. **Kinga Marton**, Alex Moldovan, Alin Suciu, A Coincidence-based statistical test for randomness assessment, in Automation, Computers, Applied Mathematics, vol. 21, no. 2, pp. 119-122, 2012.
29. Alin Suciu, Melania Miron, **Kinga Márton**, Pseudo-random number generation in Prolog, in Automation, Computers, Applied Mathematics, vol. 21, no. 2, pp. 123-128, 2012.
30. **Kinga Marton**, Iszabela Nagy, Alin Suciu, Visual inspection of random number sequences with FileSeer, in Automation, Computers, Applied Mathematics, vol. 19, no. 1, pp. 3-10, 2010.
31. **Kinga Marton**, Alin Suciu, Sorina Negreanu, Increasing the performance of the ENT randomness test suite, in Automation, Computers, Applied Mathematics, vol. 17, no. 3, pp. 367-372, 2008.

