

Curriculum Vitae



Personal information

First name / Surname

Kinga Marton

Address

Technical University of Cluj-Napoca
Department of Computer Science
Baritiu 26-28, Cluj-Napoca 400027, Romania

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Kinga.Marton@cs.utcluj.ro

Date of birth

October 15, 1982

Academic Experience

Dates

2006 – present

Occupation or position held

Teaching Assistant

Main activities and responsibilities

Leading laboratory works

Name and address of employer

Technical University of Cluj-Napoca

Education

Dates

2008 – 2011

Title of qualification awarded

PhD in Computer Science

Principal subjects

Thesis title: *Contributions to the Generation and Testing of Random Number Sequences Intended for Cryptographic Applications*

Name and type of organisation providing education and training

Technical University of Cluj-Napoca, Computer Science Department
Funded by the European Social Funds – PRODOC programme

Dates

2007 - 2009

Title of qualification awarded

MSc in Computer Science

Name and type of organisation providing education and training

Technical University of Cluj-Napoca, Computer Science Department

Dates

2001 - 2006

Title of qualification awarded

BSc in Computer Science

Name and type of organisation providing education and training

Technical University of Cluj-Napoca, Computer Science Department

Personal Skills and Competences

Mother tongue
Other languages
Self-assessment
Romanian
English

Hungarian

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B2	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user
B2	Independent user	C1	Proficient user	B2	Independent user	B2	Independent user	B2	Independent user

(*) Common European Framework of Reference for Languages

PUBLICATIONS

1. K. Marton, A. Suciu, and I. Ignat, *Randomness in digital cryptography: A survey*. Romanian Journal of Information Science and Technology – ROMJIST, vol. 13, nr. 3, 2010, pp. 219–240. [ISI]
2. K. Marton, I. Nagy, A. Suciu, *Visual Inspection of Random Number Sequences with FileSeer*, Automation, Computers, Applied Mathematics – ACAM, vol. 19, nr. 1, 2010, pp. 3-10. [MR]
3. K. Marton, A. Suciu, and S. Negreanu, *Increasing the Performance of the ENT Randomness Test Suite*, Theodor Angheluta Seminar, Baisoara, Automation, Computers, Applied Mathematics – ACAM, vol. 17, nr. 3, 2008, pp. 367-372. [MR]
4. K. Marton, and A. Coleşa, *Glinda – Grid based distributed Linda system*, in Proceedings of the 9th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing - SYNASC 2007, pp. 349-352. [IEEE], [DBLP]
5. A. Suciu, K. Marton, and Z. Antal, *Data Flow Entropy Collector*, in Proceedings of the 10th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, Timisoara, Romania, Workshop on Generation, Testing and Applications of Random Number Sequences, 2008, pp. 445–448 [IEEE], [DBLP]
6. K. Marton, and A. Suciu, *Parallel ENT – ParENT*, in Proceedings of the 4th Balkan Conference in Informatics, Thessaloniki, 2009, pp. 28-32. [IEEE], [DBLP]
7. A. Suciu, T. Carean, A. Seznec, and K. Marton, *Parallel HAVEGE*, in Proceedings of the 8th International Conference on Parallel Processing and Applied Mathematics (PPAM 2009), Wroclaw, 2009, pp. 145-154. [DBLP] [Springer]
8. A. Suciu, K. Marton, I. Nagy, and I. Pinca, *Byte-oriented Efficient Implementation of the NIST Statistical Test Suite*, in Proceedings of the IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR- 2010, Cluj-Napoca, pp. 1-6. [IEEE]
9. E. Cebuc, A. Suciu, K. Marton, S. Dolha, and L. Muresan, *Implementation of Cryptographic Algorithms on a Grid Infrastructure*, in Proceedings of the IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR- 2010, Cluj-Napoca, pp. 1-6. [IEEE]
10. A. Suciu, I. Nagy., K. Marton, and I. Pinca, *Parallel Implementation of the NIST Statistical Test Suite*, in Proceedings of the IEEE International Conference on Intelligent Computer Communication and Processing - ICCP 2010, Cluj-Napoca, 2010, pp. 363-368. [IEEE]
11. A. Suciu, K. Marton, E. Cebuc, V. T. Dadarlat, and G. Sebestyen, *Gathering Entropy from the Grid with GridHAVEGE*, in Proceedings of the IEEE International Conference on Intelligent Computer Communication and Processing - ICCP 2010, Cluj-Napoca, 2010, pp. 459-463. [IEEE]
12. K. Marton, A. Suciu, and D. Petricean, *A parallel Unpredictable Random Number Generator*, in Proceedings of the IEEE International Conference on Networking in Education and Research - RoEduNet 2011, Iași, 2011, pp. 131-135. [ISI Proceedings]
13. A. Suciu, P. Cobarzan, and K. Marton, *The Neverending Problem of Counting Bits Efficiently*, in Proceedings of the IEEE International Conference on Networking in Education and Research - RoEduNet 2011, Iași, 2011, pp. 136-139. [ISI Proceedings]

14. A. Suciu, S. Banescu, and K. Marton, *Unpredictable Random Number Generator Based on Hardware Performance Counters*, in Proceedings of the International Conference on Digital Information Processing and Communications - ICDIPC 2011, Ostrava, 2011, pp. 123-137. [DBLP] [Springer]
15. A. Suciu, D. Lebu, and K. Marton, *Unpredictable Random Number Generator based on Mobile Sensors*, in Proceedings of the IEEE International Conference on Intelligent Computer Communication and Processing - ICCP 2011, Cluj-Napoca, 2011, pp. 445-448 [IEEE]

RESEARCH GRANTS

1. Member of the research team working on the Integrated actions programme (PAI) "Brâncuși" Romania–France, "Generation, test and efficient management of large size random sequences, using Grid-based technologies", nr. 169 / 2009-2010. Contract director: Prof. dr. eng. Alin Dumitru Suciu. Team members: Octavian Creț, Kinga Marton.
2. Member of the research team working on the PN 2 PARTNERSHIPS contract, no.11-020 / sept.2007 „CryptoRand - A High Performance System for Generation and Testing of Random Number Sequences for Cryptographic Applications" (<http://cryptorand.utcluj.ro/>), 2007-2010. Contract director: Prof. dr. eng. Alin Dumitru Suciu, Technical University of Cluj-Napoca.
3. Member of the research team working on contract RANTESQC – Random Number Testing for Quantum Cryptography Applications, TUCN – Siemens PSE, 2007. Contract director: Prof. dr. eng. Alin Dumitru Suciu, Technical University of Cluj-Napoca.

Cluj-Napoca
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Eng. Kinga MARTON