

Alexander Krassovitskiy

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Date and place of birth: 26.09.1978, Almaty, Kazakhstan

EDUCATION

2005 – 2011

PhD in Computer Science conferred on September 2, 2011

Rovira i Virgili University, Tarragona, Spain

Thesis Title: Complexity and modeling power of insertion-deletion systems

Supervisors: Prof. Yuri Rogozhin and Dr. hab. Sergey Verlan

2000 – 2002

Masters of Science in Applied Mathematics

Kazakh National University, Almaty, Kazakhstan

1996 – 2000

Bachelor of Science in Applied Mathematics

Kazakh National University, Almaty, Kazakhstan

PROFESSIONAL AREAS OF INTERESTS

In theoretical computer science: formal languages, insertion–deletion systems, P systems, membrane computing, Petri nets, model checking.

In applied computer science: mathematical modeling of solid mass mediums, software specification and verification.

RESEARCH EXPERIENCE

March, 2005 – September, 2011

PhD follow at Research Group on Mathematical Linguistics, Rovira i Virgili University, Tarragona, Spain (4th International PhD school in Formal Languages and Applications 2005 – 2007).

April, 2004 – March, 2005

Research in software specifications and verifications methods and tools at Laboratory of mathematical modeling, Kazakh National University.

June, 2001 – December, 2002

Theoretical research group, Institute of Seismology, Kazakhstan

Participation in the project "Investigation of global tectonic earth processes 2002".

Modeling of surface deformation activity using monitoring objects. As result a software simulator was created to visualize an approximation of stress/deformation field in a two dimensional case.

January, 2000 – July, 2004

Laboratory of mathematical modeling, Kazakh National University.

Member of the project "Development of multimedia educational programs".

As result three educational software programs appeared:

1. Virtual Chromosome Laboratory. 2. Virtual Molecular Biology. 3. History of Genetics.

SCHOLARSHIPS AND GRANTS

October, 2010 – April, 2011

Research Scholarship at Rovira i Virgili University, Supported by the Spanish Ministry of Technology and Science, project MTM2007–63422.

September, 2010 – October, 2010

Rovira i Virgili University – Scholarship of collaboration at Faculty of Economics and Business.

October, 2007 – September, 2009

Rovira i Virgili University – PhD researcher contract.

October, 2005 – September, 2009

Rovira i Virgili University – PhD scholarship (as a contract with University Rovira i Virgili).

April, 2004

A grant for book publication (in frames of Tempus Tacis Project CD_JEP 22077–2001)A. Krassovitskiy, "Software Specification and Verification" (a methodological book), Almaty, Kazakhstan.

April, 2003, March, 2004

Two travel grants covered by Tempus Tacis Project (educational grant CD_JEP 22077–2001) with the aim to organize new course "Software Specification and Verification" for Kazakh national university, Department of applied mathematics.

July, 2002

Travel grant of Institute of Mathematics, Kazakh National University to participate in "The 3rd International conference in bioinformatics of genome regulation and structure". Novosibirsk, Russia.

September, 2003 – July, 2004

Kazakh National University, Postgraduate Scholarship from Kazakh National University.

September, 1996 – July, 2002

Kazakh National University, Student Scholarship from Kazakh National University.

COMPUTING SKILLS

Applications: Microsoft/Open Office Suite, Mathematica, Maple, Statistica, GimpShop, 3DMax, ArcInfo, several e-mail packages.

Programming Languages: Java, Python, Delphi, Prolog, SQL, VDM–SL, UML, HTML, PHP

Operating Systems: Unix Ubuntu, Windows 7/Vista/XP

TEACHING SKILLS

Postgraduate demonstrator. I have lead several seminars and presentation during my PhD training. I read course named "Software Specification and Verification" at Department of Informatics, Kazakh National University.

PARTICIPATION AT WORKSHOPS AND CONFERENCES

1. 3rd International Conference Bioinformatics of Genome Regulation and Structure, (BGRS02) Novosibirsk, Russia, 2002 (speaker).
2. Smagulov's conference in informatics and society, Kazakh National University, Almaty, 2003 (speaker).
3. 1nd International Conference on Language and Automata Theory and Applications (LATA 2007), Tarragona, Spain, 2007 (organizing committee).
4. 2nd International Conference on Language and Automata Theory and Applications (LATA 2008), Tarragona, Spain, 2008 (speaker, organizing committee).
5. International Workshop on Computing with Biomolecules (CBM 08), August 27th, Wien, Austria, 2008 (speaker).
6. 3rd International Conference on Language and Automata Theory and Applications (LATA 2009), Tarragona, Spain, 2009 (organizing committee).
7. Seventh Brainstorming Week on Membrane Computing (BWMC 09), Sevilla, Spain, 2009 (speaker).
8. Tenth Workshop on Membrane Computing (WMC 10), Curtea de Arges, Romania, 2009 (speaker).
9. Second International Conference on Agents and Artificial Intelligence (ICAART 2010), Valencia, Spain, 2010 (speaker).
10. Eight Brainstorming Week on Membrane Computing (BWMC 10), Sevilla, Spain, 2010 (participant).
11. Ninth Brainstorming Week on Membrane Computing (BWMC 11), Sevilla, Spain, 2011 (speaker).
12. 1st International Work-Conference on Linguistics, Biology and Computer Science: Interplays, Tarragona, Spain, 2011 (speaker, organizer).
13. 9th International Conference on Practical Applications of Agents and Multi-Agent Systems Session: Bio-Inspired and Multi-Agents Systems: Applications to Languages, Salamanca, Spain, Special, 2011 (speaker).

RECENT PUBLICATIONS

1. A. Krassovitskiy, Yu. Rogozhin, S. Verlan: Further Results on Insertion–Deletion Systems with One–Sided Contexts. *LNCS*, 5196, 2008, 333 – 344.
2. A. Krassovitskiy, Yu. Rogozhin, S. Verlan: One–Sided Insertion and Deletion: Traditional and P Systems Case. In proc *CBM 2008*, Vienna, Austria, 53 – 64.
3. A. Krassovitskiy, Yu. Rogozhin, S. Verlan: Computational Power of P Systems with Small Size Insertion and Deletion Rules. In proc *CSP 2008*, Cork, 137 – 148.
4. A. Krassovitskiy: On the Power of Insertion P Systems of Small Size. In proc *BWMC 09*, Sevilla, Spain, v.2, 27 – 38.
5. A. Alhazov, A. Krassovitskiy, Y. Rogozhin, S. Verlan: About (P) Systems with Minimal Insertion and Deletion. In proc *BWMC10 2009*, Sevilla, Spain, 9 – 21.
6. A. Alhazov, A. Krassovitskiy, Y. Rogozhin, S. Verlan: P Systems with Minimal Insertion and Deletion, *Theor. Comput. Sci.*, 2011, 412, 136–144.
7. A. Alhazov, A. Krassovitskiy, Y. Rogozhin, S. Verlan: A Note on P Systems with Small–Size Insertion and Deletion, *WMC10*, Cuerta de Arges, Romania, 534 – 537.
8. G. Bel, P. Dmosi, A. Krassovitskiy: Parsing by Simple Insertion Systems, Special Session on Computing Languages with Multi–Agent Systems and Bio–Inspired, *ICAART 2010*, Valencia, Spain, 2010.
9. A. Alhazov, A. Krassovitskiy, Y. Rogozhin, S. Verlan: Small Size Insertion and Deletion Systems. In: Scientific Applications of Language Methods, vol. 2. New Trends in Formal Language Theory Inspired by Natural Computing C. Martín–Vide, (Ed.), Imperial College Press, World Scientific, 2010, 459–524 (book chapter).
10. A. Krassovitskiy: On the Power of Small Size Insertion P Systems, *IJCCC*, 2011, VI(2), 266 – 277.
11. A. Krassovitskiy, Y. Rogozhin, S. Verlan: Computational Power of Insertion–Deletion (P) Systems with Rules of Size Two, *Natural Computing*, Springer, DOI 10.1007/s11047–010–9208–y, 2010.
12. A. Alhazov, G. Bel, A. Krassovitskiy, Y. Rogozhin: About Complete Obligatory Hybrid Networks of Evolutionary Processors Without Substitution, *Advances in Computational Intelligence*, *LNCS*, 2011, 6691, 2011, 441 – 448.
13. A. Alhazov, G. Bel, A. Krassovitskiy, Y. Rogozhin: Complete Obligatory Hybrid Networks of Evolutionary Processors. In proc *Highlights in Practical Applications of Agents and Multiagent Systems*, vol. 89. P. Mathieu, et al. (Eds.) *9th International Conference on Practical Applications of Agents and Multiagent Systems*, Spain, 2011, 275 – 282.
14. G. Bel, A. Krassovitskiy, Y. Rogozhin, S. Verlan: On the Lower Bounds for Asymmetrical Insertion–deletion Languages, In *Biology, Computation and Linguistics: New Interdisciplinary Paradgms*. Eds. G. Bel, etc. Series *Frontiers in Artificial Intelligence and Applications*, IOS Press, 2011, 145 – 154 (book chapter).
15. A. Alhazov, A. Krassovitskiy, Y. Rogozhin: Circular Post Machines and P Systems with Exo–Insertion and Deletion, *CMC12*, 2011, 63 – 66.
16. A. Alhazov, A. Krassovitskiy, Y. Rogozhin, S. Verlan: P Systems with Insertion and Deletion Exo–Operations, *Fundamenta Informaticae*, 110, DOI 10.3233/FI–2011–530, IOS Press, 2011 (in press).