

PERSONAL INFORMATION

Alexandra Baicoianu

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Sex Female | Date of birth 26 February 1985 | Nationality Romanian

POSITION

PhD Programmes, Research Projects & Studentships

WORK EXPERIENCE

26 February 2008 - Present

Teaching professional

Transilvania University of Brasov, Faculty of Mathematics and Computer Science, Department of Mathematics and Computer Science
50, Iuliu Maniu, Brasov (Romania)
<http://www2.unitbv.ro/Default.aspx?alias=www2.unitbv.ro/mi>

Teaching various seminars (Operational Research, Theory of Computing, Graph Theory, Logic Programming, Automata Theory and Formal Languages, Artificial Intelligence, Compilation Techniques, Algorithms and data structures) and laboratories (Database Programming, Object Oriented Programming (C#, Java, C++), Web Programming (ASP.NET, JSP, JSF, HTML, CSS, JavaScript), MS, Scilab, MathLab, Microsoft Office, Latex) at the University of Transilvania.

Mentoring teams of students for some contests (ThinkQuest) and Scientific Students Sessions

Tutor for distance/open learning

Business or sector Education

01 October 2007 - 01 February
2008

Teaching associate professional

Transilvania University of Brasov, Faculty of Mathematics and Computer Science, Department of Computer Science
50, Iuliu Maniu, Brasov (Romania)
<http://unitbv.ro/>

Teaching various seminars and laboratories

Business or sector Education

01 February 2007 - 15 June 2007

Teaching associate professional

Unirea National College
7, Bulevardul Eroilor, 500007 Brasov (Romania)
<http://cnunirea.ro/>

Informatics and programming teacher

Business or sector Education

EDUCATION AND TRAINING

2012

Certificate of completion Java SE 7

Oracle University

Encapsulation, Class Design, Advanced Class Design, Interfaces, Generics Collections, Exceptions, IO Fundamentals, NIO.2, Threading, Concurrency, JDBC, Localization

2012 Certificate of Completion PFED

Ministerul Educatiei, Cercetarii, Tineretului si Sportului, (Romania)

Project: "Dezvoltarea de competente specifice proiectarii si implementarii programelor de formare in tehnologia educatiei la distanta"

2008 Certificate CISCO of Course Completion Fundamentals of Wireless LANS

CISCO Systems Inc.

Basic networking skills to VLAN troubleshooting
Develop, implement, and troubleshoot wireless networks

2007 - 2008 Postgraduation (Master) Degree in Computer Science - Algorithms and Software Products

Transilvania University of Brasov, Faculty of Mathematics and Computer Science, Brasov (Romania)

Principal subjects covered (selection): Graphs Algorithms, Genetic Algorithms, Distributed Technologies, Cryptography, Randomized Algorithms, Project Management, Knowledge Management

Thesis Title - Distributed algorithms

1 year average grade: 10

Diploma thesis: 10

2003 - 2007 Bachelor's degree in Mathematics and Computer Science

Transilvania University of Brasov, Faculty of Mathematics and Computer Science, Brasov (Romania)

Principal subjects covered (selection): algorithms and data structures, Object Orientated Programming, Algebra, Analysis, Analytical Methods and Analysis, Geometry and Linear Algebra, Computer Architecture, Operating Systems, Software Engineering, Artificial Intelligence, Probability and Statistics, Numerical Analysis, Graphs and Optimization, Databases, Operations Research, Formal Languages and Automata, Compilation Techniques, Distributed Systems, 3D Games Programming

Thesis Title - Numerical methods for solving PDEs: finite element method and FreeFem++

4 years average grade: 9,54

Diploma thesis and Final exam : 10

1999 - 2003 Baccalaureate

Grigore Tocilescu Theoretical High School, Mizil (Romania)

Specialization - Mathematics and Computer Science

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C1	C2	C1
	TOEFL 2009				
French	B2	B1	A2	A2	B2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills Team Spirit, Personal Trust, Honesty and Responsibility, Proactive, Ability to establish and maintain good working relations with people of different national and cultural backgrounds, Communication skills.

Other skills Strong referential values of fairness, Equity and Dignity, Ability to motivate and encourage my team, Ability to learn quickly new things, Energetic, Enthusiastic , Dedicated, Flexible, Strong character.

ADDITIONAL INFORMATION

- Publications**
- A software for plagiarism detection in computer source code, Proc. of the 7th International Conference on Virtual Learning ICVL, 2012
- Algebraic Model for the CPU Logic Unit Behaviour, Recent researches in computer science, Proc. of the 15-th WSEAS International Conference on Computers, Corfu, 2011
- A test of the guillotine restrictions determination for a Rectangular Three Dimensional Bin Packing Problem, WSEAS Transactions on Information Science and Applications, 2011
- The determination of the guillotine restrictions for a Rectangular Three Dimensional Bin Packing Problem, Recent researches in computer science, Proc. of the 15-th WSEAS International Conference on Computers, Corfu, 2011
- The determination of the guillotine restrictions for a rectangular cutting-stock pattern, Latest Trends on Computers vol. 1 - 14th WSEAS International Conference on Computers, ISSN 1792-4251, ISBN 978-960-474-201-1, 2010
- An algorithm for determination of the guillotine restriction for a cutting-stock pattern, WSEAS Transaction on Computers, Volume 9, Issue 10, 2010
- Data mining meets economic analysis: opportunities and challenges, Bulletin of The Transilvania University of Brasov, V SE, 2010
- The determination of the guillotine restrictions for a rectangular covering model, Proceedings of the 13th WSEAS Intern. Conference on Computers, Rodos, ISBN: 978-960-474-099-4, 2009
- An algorithm for the guillotine restrictions verification in a rectangular covering model, WSEAS Transactions on COMPUTERS, Vol.8, ISSN: 1109-2750, 2009
- The Generating of the Cutting-Covering Receipts Using Euclid's Algorithms, The 12-th WSEAS Intern. Conference on Computers, Heraklion, Greece, 2008
- A Topological Order for a Rectangular Three Dimensional Bin Packing Problem, The 12-th WSEAS Intern. Conference on Computers, Heraklion, Greece, 2008
- A plan for Loading the Boxes for a Three Dimensional Bin Packing Model, WSEAS Transactions on System, ISSN: 1109-2777, Issue 10, Vol. 7, 2008
- Textbooks**
- Formal Languages and Automata - exercises, Transilvania University Press, Brasov, Romania, 2012
- Research Interests**
- operational research, logical programming, data mining, computational intelligence, logical analysis of data, cutting and covering algorithms, image processing

Lucrări publicate

- **Baicoianu A.:** A Comparative Study of Some Classification Algorithms using WEKA and LAD Algorithm, Annals of the Tiberiu Popoviciu Seminar of Functional Equations, Approximation and Convexity, 2014.
- Marinescu D., **Baicoianu A.**, Dimitriu S.: A Plagiarism Detection System in Computer Source Code, JurnalBDI: International Journal of Computer Science Research and Application, Vol. 03, Issue 01, pp. 22-30, 2013.
- **Baicoianu A.**, Vasilescu A., Pândaru R.: Upon the performance of a Haskell parallel implementation, BULLETIN OF THE TRANSILVANIA UNIVERSITY OF BRASOV - SERIES III: MATHEMATICS. INFORMATICS. PHYSICS;2065-2151,2065-216X(CD), 2013
- Marinescu D., **Baicoianu A.**, Dimitriu S.: Software for Plagiarism Detection in Computer Source Code, Proc. of the 7th International Conference on Virtual Learning ICVL 2012, pp. 373-379.
- Marinescu D., **Baicoianu A.:** The determination of the guillotine restrictions for a Rectangular Three Dimensional Bin Packing Problem, Recent researches in computer science, Proc. of the 15-th WSEAS International Conference on Computers, Corfu, 2011
- Marinescu D., **Baicoianu A.:** A test of the guillotine restrictions determination for a Rectangular Three Dimensional Bin Packing Problem, WSEAS Transactions on Information Science and Applications, 2011
- Vasilescu A., **Baicoianu A.:** Algebraic Model for the CPU Logic Unit Behaviour, Recent researches in computer science, Proc. of the 15-th WSEAS International Conference on Computers, Corfu, 2011
- **Baicoianu A.**, Dumitrescu S.: Data mining meets economic analysis: opportunities and challenges, BUT 2010 seria V SE
- Marinescu D., **Baicoianu A.:** An algorithm for determination of the guillotine restriction for a cutting-stock pattern, WSEAS Transaction on Computers, Volume 9, Issue 10, October 2010.
- Marinescu D., **Baicoianu A.:** The determination of the guillotine restrictions for a rectangular cutting-stock pattern, Latest Trends on Computers vol. 1 - 14th WSEAS International Conference on Computers, 2010, pp. 121-126, ISSN 1792-4251, ISBN 978-960-474-201-1.
- D. Marinescu, **Băicoianu A. :** “The determination of the guillotine restrictions for a rectangular covering model”, WSEAS TRANSACTIONS on COMPUTERS, Rodos, 2009.

- D. Marinescu, **Băicoianu A.** : “ An algorithm for the guillotine restrictions verification in a rectangular covering model”, WSEAS TRANSACTIONS on COMPUTERS, Rodos, 2009.

Cărți publicate

Băicoianu A., Plajer I. : Limbaje formale si teoria automatelor Culegere de probleme, 2012, Editura Universității Transilvania, Brașov.

D. Marinescu, **Băicoianu A.** , Plajer I. Limbaje Formale si Teoria Automatelor, Editura Universității Transilvania, Brașov, 2013 – suport curs ID

D. Marinescu, **Băicoianu A.** , Plajer I. Tehnici de compilare, Editura Universității Transilvania, Brașov, 2013 – suport curs ID