Curriculum Vitae

Andreea Vescan

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http://www.cs.ubbcluj.ro/~avescan



Personal Details

Citizenship: Romanian.

Date of Birth: May 16, 1980.

Marital status: married (maiden name: Fanea).

Position: Associate Professor, Babes–Bolyai University.

Address: 16A, D. Onciul

Cluj, Romania

Research Interests

Component-based Software Engineering. Software Systems Verification and Validation. Embedded systems. Software metrics. Formal Methods.

Education

• PhD Student: October 2004 – October, 2008,

Faculty of Mathematics and Computer Science, Babes–Bolyai University. January 13, 2009, The Romanian Ministry of Education confirmed by its order No. 3030 the decision of the National Attestation Board with respect to the Ph.D. de-

gree awarded by Babes-Bolyai University

February 3, 2009, The Rector of the Babes-Bolyai University issued the Ph.D. Degree Diploma PhD Thesis: Construction Approaches for Component-based Systems,

Advisor: Prof. dr. Militon Frentiu.

Distinction: cum laude.

• Master Student, October 2003 – June 2004,

Faculty of Mathematics and Computer Science, Babes–Bolyai University.

Section: Component-Based Programming.

Average Final Grade: 10 (1–10 scale). Graduation Exam: 10 (1–10 scale).

M.Sc. Thesis: Software Specification Methods.

Advisor: Conf. dr. Simona Motogna.

- Departament of Didactical Staff Education, October 1999–June 2003.
- Student at Computer Science Department, October 1999 June 2003, Faculty of Mathematics and Computer Science, Babes–Bolyai University.

 Average Final Grade: 9.22 (1–10 scale). Graduation Exam: 9.55 (1–10 scale).

 B.Sc. Thesis: Formal Models for Software Components.

 Adviser prof. dr. Bazil Parv.

Fellowships

- Advanced Fellowships: Babeş-Bolyai University, 2019
 Fellowship Type: Teaching excellence supported by scientific research,
 Title: EXPERIENCES (EXPERIENtial teaChing Embedded Systems),
 Research unit for project implementation: Software Engineering Group
- Advanced Fellowships: Babeṣ-Bolyai University, 2020 Fellowship Type: Excellence in Research-Development-Innovation activities, Title: QUAlity Estimation And prediction of embedded Systems (QUA-EASY), Research unit for project implementation: Software Engineering Group

Professional development courses - Theoretical and Practical

• 01/2020 - Participation as Content owner at the event created by "Tabara de testare Cluj",

Workshop title: Experiential Learning and Pacman Bugs https://www.meetup.com/Tabara-de-Testare-Cluj/events/267874928/Cluj-Napoca.

Speaker: Vescan Andreea and Adina Moldovan

• 06/2019-07/2019 Curs BBST - Domain Testing,

Online software testing course, BBST Course Series Altom (http://altom.training/)

Result: certification.

• 10/2017-11/2017 Course BBST – Test Design,

Online software testing course, BBST Course Series

Altom (http://altom.training/)

Result: certification.

• 10/2016-11/2016 Course BBST – Bug Advocacy,

Online software testing course, BBST Course Series

Altom (http://altom.training/)

Result: certification.

• 05/2016-06/2016 Course BBST – Foundations of Software testing,

Online software testing course, BBST Course Series

Altom (http://altom.training/)

Result: certification.

 \bullet 09/2016 - Participation as Content owner the event created by "Tabara de testare",

Workshop title: Testing like a detective

http://tabaradetestare.ro/tabara-de-toamna-2016/

Cabanele Balu, Piatra Bufnitei din Harghita Băi.

Speaker: Vescan Andreea

Professional development courses - Teaching

• 12/05/2022-9/06/2022 - Course - Academic Writing In English for Grant Applications and Academic Papers,

Euroexam International,

TRAINER: Stephanie Bradley

Result: Certification by Euroexam International

• 1/10/2021-18/02/2022 - Today Student, Tomorrow Entrepreneur (for teachers), ASMA - Azi Student, Mâine Antreprenor! (pentru cadre didactice),

Cources on: Entrepreneurship: peculiarities of learning entrepreneurial skills in higher education, Culture of ICT innovation – ICT entrepreneurship and the academic environment, University psychopedagogy: reconsideration of the psychoeducational paradigm for the contemporary generation,

https://ASMA.granturi.ubbcluj.ro/ Result: Certification

• 11/2019 - Session Gamification in university education: fundamentals and strategies,

Prof. dr. Adrian Opre, Conf. dr. Adina Glava, Lect. dr. Ramona Buzgar, Project CNFIS-FDI-2019-0111 "Educatie de calitate la Universitatea Babeș-Bolyai III"

Cluj-Napoca

Result: Diploma.

• 16/09/2019-20/09/2019 - Session - Academic Teaching Excellence (ATE),

TRAINER: Rachel Appleby, expert British Council

Project CNFIS-FDI-2019-0111 "Educatie de calitate la Universitatea Babeș-Bolyai III"

British Council with Education Department of Oxford University

Cluj-Napoca,

Result: Certification ATE by British Council

• 11/2018-12/2018 - Session on communication with Generation Z,

Prof. dr. Adrian Opre

Project CNFIS-FDI-2018-0057 "Educatie de calitate la Universitatea Babes-Bolyai II"

Cluj-Napoca

Result: diploma.

• 05/2018 - "Conferinta de dezvoltare egocentrica si educatie pozitiva", ateliere, prezentari, discutii, comunitate,

Organizer: Dreams for life

www.dreamsforlife.ro

• 04/2018 - "Noua pedagogie a mintii si a inimii pentru parinti si dascali",

Speaker: Oana Moraru

Cluj-Napoca

• 05/2017 Course - Dictie,

Trainer: Andrei Tiganas

Workshop de dictie, voce si respiratii

Cluj Hub

• 03/2017-08/2017 Course - Public speaker,

Trainer: Ovidiu Oltean

Course online "Pregatit pentru discurs!"

https://ovidiuoltean.ro/pregatit-pentru-discurs/

• 01/2017 Cum sa valorifici la maxim emotiile tale în business si cariera,

Speaker: Zoltan Veres

• 11/2016 "Competitie versus Cooperare",

Trainer: "Intalniri cu tact"

Psihodramatician: Maria Raluca Batin, Coach/trainer: Cristina Delia Rosca,

https://www.facebook.com/intalniricutact/

Personal development courses with impact on the professional perspectiv

• 02-06/2022 Psychodrama group - sessions,

Topics: Team communication, Analysis of roles and their functionality, Relationships - clarifications and improvements in the register of professional relations,

Facilitators: Sabina Pop, Simona Vlad

https://psihodrama.ro/dezvoltare-personala/,

Cluj-Napoca

• 07/2021 Curs/Seminar Essence Advance,

http://www.essence-process.com/ro/,

Facilitator: Dr. Menis Yousry

Cluj-Napoca

• 09/2018 Conference "Liber la educație financiară" ("Free financial education"),

Speakers: Raluca Anton, Sergu Penciu, Gaspar Gyorgy, Oana Moraru Cluj-Napoca

• 04/2018 "Noua pedagogie a minții și a inimii pentru părinți și dascăli"

("The new pedagogy of mind and heart for parents and teachers"),

Speaker: Oana Moraru

Cluj-Napoca

• 11/2017 Curs/Seminar Essence Foundation,

Facilitator: Dr. Menis Yousry

http://www.essence-process.com/ro/, Cluj-Napoca

• 10/2016 Curs/Seminar Essence Foundation,

Facilitator: Dr. Menis Yousry

http://www.essence-process.com/ro/,

Cluj-Napoca

 \bullet 02/2016- 04/2016 Dezvoltarea inteligentei emotionale (Development of emotional intelligence),

Trainer: Zoltan Veres

• 12/2015 Managementul conflictelor (Conflict management),

Speaker: Zoltan Veres

• 09/2015-12/2015 EFT (Emotional Freedom Technique),

Trainer: Zoltan Veres

• 09/2015 EQ in business, cariera si relatii (EQ in business, career and relationships),

Speaker: Zoltan Veres

Academic Employment

• 10/01/2017-present-Associate Professor,

Department of Computer Science, Faculty of Mathematics and Computer Science, Babes–Bolyai University, Cluj–Napoca, Romania.

• 10/01/2009–10/01/2017–Lecturer Professor,

Department of Computer Science, Faculty of Mathematics and Computer Science, Babes—Bolyai University, Cluj—Napoca, Romania.

- 23.09.2010–15.12.2012 Maternity and childcare leave Iulia maternity leave 23.09.2010- 26.01.2011, care leave 27.01.2011-15.12.2012,
- **7.05.2013**–**16.06.2014** Maternity and childcare leave Adrian maternity leave 7.05.2013 9.09.2013, care leave 10.09.2013-16.06.2014,
- 10/01/2007–10/01/2009–Assistant Professor,

Department of Computer Science,

Faculty of Mathematics and Computer Science,

Babes-Bolyai University, Cluj-Napoca, Romania.

• 10/01/2004–10/01/2007–PhD Student–full time,

Programming Languages and Methods Chair,

Department of Computer Science,

Faculty of Mathematics and Computer Science,

Babes-Bolyai University, Cluj-Napoca, Romania.

• 11/01/2003–06/30/2004–Laboratory assistant,

Department of Computer Science, Faculty of Mathematics and Computer Science, Babes–Bolyai University, Cluj–Napoca, Romania.

• 9/01/2003-09/30/2004-Teacher of Computer Science, Computer Science Chair, Tiberiu Popoviciu High School,

Cluj–Napoca, Romania.

• 11/01/2002-5/01/2003-Programmer,

Computer Center, S.C. Info World S.A., Cluj-Napoca, Romania.

Teaching Experience

Subject (Lecture, Seminar and Practical	Study	Year
works)	level	
Software Systems Verification and Validation	III-rd	2007-2009;
		2009-2010 (Lecture);
		2012-2022 (Lecture)
Computational Models for Embedded Systems	Master	2012–2022 (Lecture)
Advanced Topics for Software Testing	Master	2020–2022 (Lecture)
Software Engineering	II-nd	2007-2008
Object Oriented Programming	I-st	2006-2009
Integrated Systems for Design and Implementation	III-rd	2006-2007
Fundamentals of Programming	I-st	2004-2009;
		2009-2010 (Lecture);
Advanced Programming Methods	II-nd	2004-2006;
		2018-2020
Individual Project	II-nd	2004-2005,
		2008-2010
Client/Server Applications	IV-th	2003-2004
Computer interface and communication in Internet	I-st	2003-2004
Parental leave	-	2010-2012

Undergraduate Students - Supervisor

I have coordinated several students for their thesis as follows: 2008 (2), 2009 (2), 2010 (4), 2011 (10), 2013 (5), 2018 (6), 2019 (3), 2020 (9), 2021 (6), 2022 (10).

In 2018, three students participated a with paper at "Sesiunea de Comunicari Stiințifice ale Studenților, 2018 – Informatica".

In 2019, one master student participated with a paper at "Sesiunea de Comunicari Stiințifice ale Studenților, 2018 – Informatica".

In 2022, five master students participated to this conference.

Master Students - Supervisor (Research and Development)

• Research Student Research Fellowship - Supervisor: 2022

- Title: Test Case Prioritization based on Neural Networks Classification,

Student: Tiutin Cristina-Maria,

Result: 1 paper at the ACM SIGSOFT International Symposium on Software Testing and Analysis (workshop AISTA),

https://cercetare.ubbcluj.ro/ro/burse-speciale-pentru-activitatea-stiintifica-competitia-2021-2022/

• Research Internship Supervisor - master: 2022

- Title: Bug reports priority classification model,

Student: Galbin-Nasui Andreea, Result: results presented at SCSS.

- Title: Empirical study on Detecting SQL code smells,

Student: Pasca Alexandra,

Result: results presented at SCSS.

- Title: Software Defect Prediction Models.

A replication study.,

Student: Nadejde Camelia,

Result: results presented at SCSS.

- Title: Empirical study on program comprehension in Embedded Systems,

Student: Marginean Diana,

Result: results presented at SCSS.

- Title: Classifying test cases using a neural network model,

Student: Neacsu Andreea,

Result: results presented at SCSS.

• Research Internship Supervisor - master: 2019

 Title: Predicting Reliability of Object-Oriented Systems Using a Neural Network, Student: Budur Alisa,

Result: 1 paper Studia Informatica, 1 paper at the International Conference Evaluation and Assessment in Software Engineering.

 Title: Genetic Programming based Feature Model Synthesis: A Replication Study, Student: Pintea Adrian,

Result: 1 paper accepted - international journal rank A, collaboration with prof. dr. Alexander Egyed and dr. Lukas Linsbauer from Johannes Kepler University (JKU).

Research Grants

• Principal-Investigator: UEFSCDI, PN-III-P1-1_1-TE-2021-0892, 2022-2024

P1 - Development of the National System of Research and Development, Project type: Young Research Teams

Title: ORCHESTRA - nOvel appRoaCHEs based on Soft computing for softwaRe evolution: change and defect management (Abordări noi bazate pe soft computing pentru evoluția software-ului: modificari si gestionarea defectelor),

https://www.cs.ubbcluj.ro/~avescan/orchestra/,

Team: 5 team members (two master students, two lecturers)

• Principal-Investigator: UEFSCDI, PN-III-CEI-BIM-PBE2020-0021, 2021-2022 UEFSCDI - PIII - European and international cooperation

Title: ELEVATOR - TEaching, Learning and EValuating in a sociAlly disTancing wORld (Predarea, învățarea și evaluarea într-o lume distanțată social),

https://www.cs.ubbcluj.ro/~avescan/elevator/,

Partners: Babeș-Bolyai University (5 team members) - University of Namur (3 team members)

• Principal-Investigator: AUF, December 2020 - December 2021

AUF - L'Agence Universitaire de la Francophonie, Europe Centrale et Orientale, Title: Le Pont durable

Projet régional "Dispositif de soutien au développement de l'entrepreneuriat social à l'université",

https://www.cs.ubbcluj.ro/~avescan/lepontdurable/,

Partners: Babeș-Bolyai University (2 team members) - Beyond Association (1 team members + volunteers) - Mind Broadcast SRL (1 team member)

- Principal-Investigator: Accenture Grant (Romania), April-August 2016 Title: SBSE techniques for regression testing in IoT. Partners: Babeș-Bolyai University (4 team members) - Accenture Industrial Software Solutions - Cluj-Napoca
- **Principal-Investigator**: TD CNCSIS 272/2007 grant (Romania), 2007–2009 Title: Studies on formal modeling of software components. Applications on real world problems.

https://www.cs.ubbcluj.ro/~avescan/TD_272/

- Co-Investigator: PNCDI-IDEI 2008 grant (Romania), 2008–2011 Title: Scientific computing and optimization for interdisciplinary applications. Director grant: Lect. dr. Crina Gro^oan.
- Co-Investigator: PNCDI-IDEI 550/2007 grant (Romania), 2007–2010 Title: Robust models and methods for data processing with applications in natural sciences.

Director grant: Prof. dr. Horia F. Pop.

- Co-Investigator: AT CNCSIS 31/2005 grant (Romania), 2005–2007 Title: Development of advanced computational methods in mezoscopic systems research: framework, repository and computational GRID. Director grant: Lect. dr. Zsolt Lazãr.
- Co-Investigator, The Excellence Research Programme CEEX PC-D11-PT00-147 (Romania), 2005–2008

Title: New techniques in nuclear magnetic resonance on solids.

General contractor is the Research and Development Institute for Isotopic and Nuclear Technologies, Romania.

Director grant: Prof. dr. Horia F. Pop.

Scholarships and Grants

• Research/Didactic Mobility – Northern Kentycky University, College of Informatics (16 – 19 October, 2019),

College of Informatics, Northern Kentycky University, Fellowship Babeș-Bolyai University 2019 (Romania).

- Research Mobility Johannes Kepler University (2 July 16 July, 2010),
 Johannes Kepler University, Linz, Austria,
 Institute for Systems Engineering and Automation,
 Research Mobility by PNCDI-IDEI 550/2007 grant (Romania).
- Research Scholar Wayne State University(26 June 21 July, 2008), Wayne State University, Detroit, USA, Research Mobility by PNCDI–IDEI 550/2007 grant (Romania).
- Marktoberdorf Summer School Scholarship, Marktoberdorf, Germany, August 2006 (two weeks).
- CEEPUS Scholarship, Eotvos Lorand University, Budapesta, Hungary, June 2006 (one month).
- CEEPUS Scholarship, Paisii Hilendarski University, Plovdiv, Bulgaria, August 2003 (one month).

Publications (all)

- 1. Andreea Vescan google scholar
- 2. Andreea Vescan dblp
- 3. Andreea Vescan Personal Homepage

The research activity carried out so far has materialized in 85 scientific papers: 1 books/book chapters, 37 ISI (8 ISI journals and 29 ISI Proceedings papers), 40 international conferences (18) and journals (22), and 7 national conferences and journals papers. Among the ISI journals of prestige in which the results of our research were disseminated, we mention: *Empirical Software Engineering*, *Soft computing*, *Logic Journal of the IGPL*, *Journal of Neural Network World*.

The impact of research in light of articles citing author's articles is as follows: type A* - 24 points, type A - 72 points, type B - 74 points, type C - 26 points, and type D - 15.5 points, thus a total of 210.5 points with total A* + A + B of 170. Among the prestigious ISI journals in which the articles were cited, we mention: *IEEE Transactions on Software Engineering, IEEE Software, Journal of Information and Software Technology, Journal of Software: Practice and Experience, Journal of Systems and Software, Journal Knowledge and Information Systems, Information Sciences, Applied Sciences Advances in Intelligent Systems and Computing.*

Chair

1. IEEE Frontiers in Education Conference (FIE), 2019

T1F: Assessment and Evaluation Strategies/Approaches 1

8:30 - 10:00 Room 8,

Chair: Andreea Vescan (Babes-Bolyai University, Romania)

Conference organization

1. EASEAI workshop at the FSE/ESEC conference (CORE RANK A*) 2021, 2022

https://easeai.github.io/

Academic Services

Reviewer - Member in Program and Organizing Committees

• EASE 2022 - International Conference on Evaluation and Assessment in Software Engineering,

Research track, Rank A Conference

https://conf.researchr.org/home/ease-2022

• ASE 2021 -International Conference on Automated Software Engineering Artifact Evaluation Track, Rank A* Conference

https://conf.researchr.org/home/ase-2021

• ICPC - 2021, 2022 - International Conference on Program Comprehension (ICPC) Research track, Rank A Conference https://conf.researchr.org/committee/icpc-2021/icpc-2021-programming-education-program-committee

• MSR - 2021, 2022 - Mining Software Repositories Conference Technical Papers track, Rank A Conference https://2021.msrconf.org/

• ICSME - 2021, 2022 - International Conference on Software Maintenance and Evolution

Tool Demo Track (2021, 2022), NIER Track (2021, 2022), Research Track (2022) https://cyprusconferences.org/icsme2022/

• SCAM - 2021, 2022 -IEEE International Working Conference on Source Code Analysis and Manipulation

Research track, Rank C Conference

https://www.ieee-scam.org/2022/

• ENASE 2021 - 2022 - Evaluation of Novel Approaches to Software Engineering, Research Track, Rank B Conference,

https://enase.scitevents.org/?y=2022

• EASEAI - 2020, 2021, 2022 - International Workshop on Education through Advanced Software Engineering and Artificial Intelligence
Workshop at Conference FSE/ESEC, Rank A* Conference
https://easeai.github.io/

• FIE - 2019 - 2020 - Frontiers in Education (FIE) Conference Rank B conference,

https://www.fie2020.org/

• ITiCSE - 2019-2022 - Annual Conference on Innovation and Technology in Computer Science Education

https://iticse.acm.org/

• ICSE 2022 - International Conference on Software Engineering, SEET - Software Engineering Education and Training Track,

Rank A* Conference,

https://conf.researchr.org/home/icse-2022

• SIGCSE TS 2021-2022 - Technical Symposium on Computer Science Education, Rank A Conference,

2021, Poster track,

2022, Computer Education Research Track,

https://sigcse2021.sigcse.org/

- CITEI 2020 -Conference on Internet of Things and Embedded Intelligence http://citei.intconference.org/
- SoMMA 2019 Symposium on Machine Learning and Metaheuristics Algorithms, and Applications (SoMMA'19)

http://www.acn-conference.org/somma2019/

 \bullet CISIS 2018-2020, 2022 - 13th International Conference on Computational Intelligence in Security for Information Systems

http://2020.cisisconference.eu/

• ICEUTE 2018, 2020, 2021 - 11th International Conference on EUropean Transnational Educational

http://2019.iceuteconference.eu/

 $\bullet\,$ SOCO 2018-2020 - International Conference on Soft Computing Models in Industrial and Environmental Applications

http://2019.sococonference.eu/

• AIIPCC (ACM) - 2019 - International Conference on Artificial Intelligence, Information Processing and Cloud Computing

http://www.aiipcc.org/

- MaCS 2018 12th Joint Conference on Mathematics and Computer Science http://www.cs.ubbcluj.ro/~macs/2018/
- The 8th International Conference Sciences of Electronic, Technologies of Information and Telecommunications (SETIT 2018)

http://www.setit.rnu.tn/

• HAIS 2009-2019, 2021, 2022 - International Conference on Hybrid Artificial Intelligence Systems

http://gicap.ubu.es/hais2009/

• ICAISC 2012-2019 - International Conference on Artificial Intelligence and Soft Computing, Zakopane, Polonia http://www.icaisc.eu/

- DMIN 2009 The 5th International Conference on Data Mining http://www.dmin--2009.com/
- ICADIWT 2009 The Second International Conference on the Applications of Digital Information and Web Technologies http://www.dirf.org/diwt2009/
- ICICS 2009 The international Conference on Information and Communication Systems, Amman, Jordan, December 20, 2009 http://www.icics.info/
- ICSECS 2009 International Conference on Software Engineering and Computer Systems, Kuantan, Malaysia, October 19 21, 2009 http://icsecs.ump.edu.my/
- KEPT 2009 nternational Conference on Knowledge Engineering: Principles and Techniques, Babes-Bolyai University, Cluj-Napoca, Romania, July 2-4, 2009 http://www.cs.ubbcluj.ro/kept2009/
- NDT 2009 The First International Conference on Networked Digital Technologies http://arg.vsb.cz/ndt2009/
- DMIN 2010 The 6th International Conference on Data Mining http://www.dmin-2010.com/
- IEEE ICCSIT 2011 International Conference on Computer Science and Information Technology, Chengdu, China, June 10 12, 2011 www.iccsit.org
- International Journal Studia Universitatis Babes-Bolyai Informatica http://www.cs.ubbcluj.ro/~studia-i/

Reviewer - International Journals

- Reviewer CORE Rank A Journals (7 journals, 12 papers)
 - Empirical Software Engineering, (1 paper) https://www.springer.com/journal/10664
 - $-\,$ Journal of Systems and Software, (1 paper) https://www.journals.elsevier.com/journal-of-systems-and-software
 - IEEE Access (1 articol) http://ieeeaccess.ieee.org/
 - Neurocomputing (1 articol in 2 phases), https://www.journals.elsevier.com/neurocomputing
 - International Journal of Information Technology and Decision Making (1 articol)

- Logic Journal of the IGPL (3 articole)
- Applied Soft Computing (3 articole)
- Reviewer CORE Rank B Journals (1 journal, 1 paper)
 - Engineering Optimization (1 paper)
- Reviewer CORE Rank C Journals (1 journal, 25 papers)
 - Romanian Journal of Information Science and Technology (25 articole)
- Other International Journals
 - International Journal of Ad hoc, Sensor and Ubiquitous Computing (IJASUC) ISSN: 0976 1764 [Online]; 0976 2205 [Print]
 - CEJCS Central European Journal of Computer Science http://link.springer.com/journal/13537
 - Journal of Information Technology Research, http://arxiv.org/abs/1208.4945v1

Editorial activity

- Member in the Editorial Board of International Journal of Web Applications. http://www.dirf.org/ijwa/
- Editorial Board for the Journal of Information Technology Review (JITR) http://www.dline.info/jitr/eb.php
- Associate Editor of Romanian Journal of Information Science and Technology (since dec. 2011)

http://www.imt.ro/romjist/

Languages

- English-writing, reading, speaking: fluently.
- Italian—writing, reading, speaking: satisfactory level.
- French-writing, reading, speaking: satisfactory level.

Associate Professor

Andreea Vescan