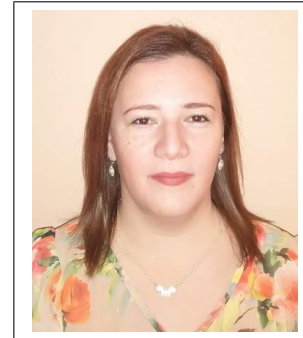


Curriculum Vitae
Assoc. Prof. Andreea Vescan, PhD habil.

Department of Computer Science
Faculty of Mathematics and Computer Science
Babeş-Bolyai University
1, M. Kogălniceanu Street
400084, Cluj-Napoca, România
Tel: +4.0264.405.325
Fax: +4.0264.191.960
E-mail: avescan@cs.ubbcluj.ro
<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, Babeş-Bolyai University.
Address: 16A, D. Onciul
Cluj, Romania

Research Interests

Software Engineering.
Software Testing. Software Systems Verification and Validation.
Computer Science Education Research.

Education

- **Habilitation Thesis: February 2023 - public presentation,**
Faculty of Mathematics and Computer Science, Babeş-Bolyai University.
May 12, 2023, The Romanian Ministry of Education confirmed by its order No. 4186 the decision of the National Attestation Board with respect to the Habilitation awarded by Babeş-Bolyai University
Habilitation Thesis: Contributions to Topics in Software Engineering,

- **PhD Student: October 2004 – October, 2008,**
Faculty of Mathematics and Computer Science, Babeş-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. degree awarded by Babeş-Bolyai University
February 3, 2009, The Rector of the Babeş-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:** Babeş-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.
- **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

- **23/03/2023-14/12/2023 - Course - Academic English Teaching Skills**,
Euroexam International,
TRAINER: Rachel Appleby
Result: Certification by Euroexam International
- **28/11/2023-19/12/2023 - Generative AI Essentials course by EIT Digital Professional School**,
 1. Leveraging the Power of AI: The Case of CHATGPT
TRAINER: Jim Spohrer, Marco Podien
Result: Certificate of attendance
 2. Navigating Project Management with AI: A Modern Approach
TRAINER: Antonio Nieto-Rodriguez
Result: Certificate of attendance
 3. Generative AI: Unlocking the Future of Customer Journeys
TRAINER: Edwin M. Colella
Result: Certificate of attendance
 4. AI Conscience: Unravelling Ethical Dilemmas
TRAINER: Neema Balolebwami Nelly, Gry Hasselbalch
Result: Certificate of attendance
- **2/05/2023-26/05/2023 - Course - Academic Writing Skills**,
Euroexam International,
TRAINER: Rachel Appleby
Course finance: ORCHESTRA grant
Result: Certification by Euroexam International
- **16/03/2023-21/05/2023 - Course - English for Scientific Papers**,
Euroexam International,
TRAINER: Stephanie Bradley
Result: Certification by Euroexam International
- **24/12/2022 - Attending the 7th edition of the International Conference “Innovative Solutions in Education: Interactive lessons and tests”**,

Eduboom, EduMagic, Invat si Zambesc,
Result: Certificate of attendance

- **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, Măine Antreprenor! (pentru cadre didactice),**
Courses 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 psycho-educational paradigm for the contemporary generation,
<https://ASMA.granturi.ubbcluj.ro/>
Result: Certification
- **05/2021 - EON-XR Educator Course,**
EON Reality's EON-XR Educator Course and demonstrating proficient academic usage of the EON-XR Platform,
TRAINER: Marcin Kasica
Online
Result: Certificate of completion.
- **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 Babeş-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 Babeş-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 perspective

- **20/11/2023 Trauma-Informed Leadership**,
Topics: Trauma and the Workspace, Trauma-Informed Principles, Leadership, Healthy Workplaces
Facilitators: Dr. Scott Giacomucci
Organizers: Better Speech Coach, Beyond Association
<https://www.phoenixtraumacenter.com/aboutme/>,
Online
- **03-12/2023 Role-Resurse-Crestere - sessions**,
Topics: Rolul de profesor si valori care dau sens acestui rol, Resurse pentru prevenirea burn-out si brown-out, Imputernicire - despre a creste impreuna in mediul profesional
Facilitators: Cristina Delia Rosca (cabinet individual de psihologie)
<https://www.facebook.com/profile.php?id=100065528108272>,
Cluj-Napoca
- **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
- **02/2016- 04/2016 Dezvoltarea inteligenței 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 works)	Study level	Year
Software Systems Verification and Validation	III-rd	2007–2009; 2009-2010 (Lecture); 2012-2024 (Lecture)
Computational Models for Embedded Systems	Master	2012–2024 (Lecture)
Advanced Topics for Software Testing	Master	2020–2023 (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, 2013-2014

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), 2023 (3).

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

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

In 2022, five master students participated in this conference.

In 2023, two master students participated in 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 (with publications) - master: 2023***

- Title: Test Case Prioritization based on Neural Network Classification with Artifacts Traceability,
Student: Ioana Rotaru,
Result: results published at the 5th International Workshop on Automated and verifiable Software sYstem DEvelopment (ASYDE) within the 38th IEEE/ACM International Conference on Automated Software Engineering (ASE 2023).
- Title: Outlier Detection through Connectivity-based Outlier Factor for Software Defect Prediction,
Student: Andrada Moldovan,
Result: results presented at SCSS.

- ***Research Internship Supervisor (with publications) - 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 (with publications) - 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 Groșan.
- 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 mesoscopic systems research: framework, repository and computational GRID.
Director grant: Lect. dr. Zsolt Lazăr.
- Co-Investigator, The Excellence Research Programme CEEEX 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 Mobility – Johannes Kepler University (22 October – 30 October, 2023)**,
Johannes Kepler University, Linz, Austria,
Institute for Systems Engineering and Automation,
Research Mobility by PN-III-P1-1.1-TE-2021-0892 grant (Romania).
- **Research Mobility – Eindhoven University of Technology (22 September – 29 September, 2022)**,
Eindhoven University of Technology, Eindhoven, Netherland,
Mathematics and Computer Science,
Research Mobility by PN-III-P1-1.1-TE-2021-0892 grant (Romania).
- **Research/Didactic Mobility – Northern Kentucky University, College of Informatics (16 – 19 October, 2019)**,
College of Informatics, Northern Kentucky 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**, Budapest, Hungary, June 2006 (one month).
- **CEEPUS Scholarship, Paisii Hilendarski University**, Plovdiv, Bulgaria, August 2003 (one month).

Publications (all in the links)

1. [Andreea Vescan - google scholar](#)
2. [Andreea Vescan - dblp](#)
3. [Andreea Vescan - SCOPUS](#)
4. [Andreea Vescan - WOS](#)
5. [Andreea Vescan - ORCID](#)
6. [Andreea Vescan - Personal Homepage](#)

List of publications

Books and Book chapters

1. **A.Vescan**, C-M.Pintea, Component-based Ant Systems in *Modern Paradigms in Computer Science and Applied Mathematics*, A Handbook for PhD Students and Researchers, (Eds.B.Patrut, G-C.Crisan), Akademische Verlagsgemeinschaft Munchen-AVM-GmbH & Co.KG, Munchen, Germany, 2011 (ISBN 978-3-86306-757-1)
2. Niculescu, V., Şerban, C., **Vescan, A.** (2023). A New Metric for Multithreaded Parallel Programs Overhead Time Prediction. In: Kaindl, H., Mannion, M., Maciaszek, L.A. (eds) Evaluation of Novel Approaches to Software Engineering. ENASE 2022. Communications in Computer and Information Science, vol 1829. Springer, Cham. .

ISI Science Citation Index Expanded

1. S. Motogna, **A. Vescan**, C. Serban, Empirical investigation in embedded systems: Quality attributes in general, maintainability in particular, Journal of Systems and Software, Volume 201, 2023, 111678, ISSN 0164-1212, .
2. **A. Vescan**, C.-M Pintea, P. C. Pop, Test Case Prioritization—ANT Algorithm With Faults Severity, Logic Journal of the IGPL, Volume 30, Issue 2, April 2022, Pages 277–288, <https://doi.org/10.1093/jigpal/jzaa061> (rank A ISI journal)

3. **A. Vescan**, C. Șerban, G. C. Crișan, Computational intelligence in software defects rules discovery. *Soft Comput* 26, 6925–6939 (2022), <https://doi.org/10.1007/s00500-021-06646-9>, (rank B ISI journal)
4. D. Opre, C. Șerban, **A. Vescan**, R. Iucu, Supporting students’ active learning with a computer based tool, *Active Learning in Higher Education*, June 2022, <https://doi.org/10.1177/14697874221100465>
5. **A. Vescan**, A. Pinteaa, L. Linsbauer, A. Egyed. 2021. Genetic programming for feature model synthesis: a replication study. *Empirical Softw. Engg.* 26, 4 (Jul 2021), <https://doi.org/10.1007/s10664-021-09947-7> (rank A ISI journal)
6. **A. Vescan**, C. Serban. 2017. Multilevel component selection optimization toward an optimal architecture. *Soft Comput.* 21, 15, 2017, 4481–4495. <https://doi.org/10.1007/s00500-016-2472-8> (rank B ISI journal)
7. **A. Fanea**, L. Diosan, *Evolutionary Approach for Behaviour Component Composition*, International Journal of Computers, Communication and Control, Supplementary issue-Proceedings of the International Conference on Computers, Communications & Control, 1–3 June, Baile Felix Spa-Oradea, Romania, Eds.:Ioan Dzitac, Florin-Gheorghe Filip, Misu-Jan Manolescu, ISSN: 1841-9836, pp. 480–485, 2006 (*indexed ISI-SCI-E*).
8. **A. Fanea**, L. Diosan, *Computational Intelligence-based Model for Component Composition Analysis*, International Journal of Computers, Communication and Control, Supplementary issue-Proceedings of the International Conference on Computers, Communications & Control, 1–3 June, Baile Felix Spa-Oradea, Romania, Eds.:Ioan Dzitac, Florin-Gheorghe Filip, Misu-Jan Manolescu, ISSN: 1841-9836, pp. 474–479, 2006 (*indexed ISI-SCI-E*).
9. **V. Vescan**, *Optimal component selection using a multiobjective evolutionary algorithm*, Journal of Neural Network world, ISSN: 1210-0552, 2008 (*indexed ISI-SCI-E*), (Rank Q4 in 2009)

ISI Conference Proceedings Citation Index

1. Radu Gaceanu, Arnold Szederjesi-Dragomir and **Andreea Vescan**, Leveraging Rough Sets for Enhanced Test Case Prioritization in a Continuous Integration Context, The IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER), 2024, 7th Workshop on Validation, Analysis and Evolution of Software Tests, <https://vstworkshop.github.io/vst2024/>, (accepted)
2. Adriana Coroiu, Alina Calin, Radu Gaceanu, **Andreea Vescan**, Advancements, Challenges, and Emerging Trends in Computer Science Education: A Systematic Literature Review of Academic and Professional Learning, The IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER), 2024, First International Workshop on Facilitating continuous education and training through AI in Software Engineering (F-TRANSFER), <https://www.cs.ubbcluj.ro/~avescan/f-transfer/index.php/program/>, (accepted)

3. I. -C. Rotaru and **A. Vescan**, Test Case Prioritization Based on Neural Network Classification with Artifacts Traceability, 2023 38th IEEE/ACM International Conference on Automated Software Engineering Workshops (ASEW), Luxembourg, Luxembourg, 2023, pp. 78-87, .
4. **A. Vescan**, R. Găceanu and A. Szederjesi-Dragomir, Neural Network-Based Test Case Prioritization in Continuous Integration, 2023 38th IEEE/ACM International Conference on Automated Software Engineering Workshops (ASEW), Luxembourg, Luxembourg, 2023, pp. 68-77, .
5. **A. Vescan** and R. Găceanu, Cross-Project Defect Prediction using Supervised and Unsupervised Learning: a Replication Study, 2023 27th International Conference on System Theory, Control and Computing (ICSTCC), Timisoara, Romania, 2023, pp. 440-447, .
6. **A. Vescan**, C. Serban, A.-D. Budur, 2021. Towards a Reliability Prediction Model based on Internal Structure and Post-Release Defects Using Neural Networks. In Evaluation and Assessment in Software Engineering (EASE 2021). Association for Computing Machinery, New York, NY, USA, 379–386, <https://doi.org/10.1145/3463274.3463363> (rank A CORE conference, workshop)
7. **A. Vescan**, C. Şerban, G. C. Crişan, Software Defects Rules Discovery, 2021 IEEE International Conference on Software Testing, Verification and Validation Workshops (ICSTW), 2021, pp. 101-109, <https://doi.org/10.1109/ICSTW52544.2021.00028>, (rank A CORE conference, workshop)
8. C. Şerban, **A. Vescan**, (2021). Towards a Neural Network based Reliability Prediction Model via Bugs and Changes. In Proceedings of the 16th International Conference on Software Technologies - ICSOFT, ISBN 978-989-758-523-4; ISSN 2184-2833, pages 302-309. <https://doi.org/10.5220/0010600703020309>, (rank B CORE conference)
9. I. Todericiu, C. Serban, **A. Vescan**. 2021. Students perception on the impact of their involvement in the learning process: an empirical study. In Proceedings of the 3rd International Workshop on Education through Advanced Software Engineering and Artificial Intelligence (EASEAI 2021). Association for Computing Machinery, New York, NY, USA, 39–46. <https://doi.org/10.1145/3472673.3473964>, (rank A* CORE conference, workshop)
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13. **A. Vescan**, C. Şerban, Towards a new Test Case Prioritization Approach based on Fuzzy Clustering Analysis, 2020 IEEE International Conference on Software Maintenance and Evolution (ICSME), 2020, pp. 786-788, <https://doi.org/10.1109/ICSME46990.2020.00091>, (rank A CORE conference)
14. **A. Vescan**. 2019. Does learning by doing have a positive impact on teaching model checking? In Proceedings of the 1st ACM SIGSOFT International Workshop on Education through Advanced Software Engineering and Artificial Intelligence (EASEAI 2019). Association for Computing Machinery, New York, NY, USA, 27–34, <https://doi.org/10.1145/3340435.3342717>, (rank A* CORE conference, workshop)
15. C. Serban, **A. Vescan**. 2019. Predicting reliability by severity and priority of defects. In Proceedings of the 2nd ACM SIGSOFT International Workshop on Software Qualities and Their Dependencies (SQUADE 2019). Association for Computing Machinery, New York, NY, USA, 27–34. <https://doi.org/10.1145/3340495.3342753>, (rank A* CORE conference, workshop)
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17. V. Niculescu, C. Şerban, **A. Vescan**, "Does Cyclic Learning have Positive Impact on Teaching Object-Oriented Programming?," 2019 IEEE Frontiers in Education Conference (FIE), 2019, pp. 1-9, <https://doi.org/10.1109/FIE43999.2019.9028600>, (rank B CORE2020 conference)
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19. S. Motogna, **A. Vescan**, C. Serban, P. Tirban, "An approach to assess maintainability change," 2016 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), 2016, pp. 1-6, <https://doi.org/10.1109/AQTR.2016.7501279>.
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22. **A. Vescan**. (2016). Case Study Method and Research Design for the Dynamic Multilevel Component Selection Problem. In: Norta, A., Gaaloul, W., Gangadharan, G., Dam, H. (eds) Service-Oriented Computing – ICSOC 2015 Workshops. ICSOC 2015. Lecture Notes in Computer Science(), vol 9586. Springer, Berlin, Heidelberg. https://doi.org/10.1007/978-3-662-50539-7_11, (rank A CORE conference, workshop)
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26. C. Chisalita-Cretu, **A. Vescan**, "The multi-objective refactoring selection problem," Knowledge Engineering Principles and Techniques, 2009, pp. 291-298.
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2. C.-M. Tiutin and **A. Vescan**. 2022. Test case prioritization based on neural networks classification. In Proceedings of the 2nd ACM International Workshop on AI and Software Testing/Analysis (AISTA 2022). Association for Computing Machinery, New York, NY, USA, 9–16. <https://doi.org/10.1145/3536168.3543300>, (rank A CORE conference, workshop)
3. V. Niculescu, C. Şerban, **A. Vescan**, (2022). Towards an Overhead Estimation Model for Multithreaded Parallel Programs. In Proceedings of the 17th International Conference on Evaluation of Novel Approaches to Software Engineering - ENASE, ISBN 978-989-758-568-5; ISSN 2184-4895, pages 502-509. <https://doi.org/10.5220/0011083400003176>, (rank B CORE conference)
4. **A. Vescan**, C. Chisalita-Cretu, C. Serban, L. Diosan. 2021. On the use of evolutionary algorithms for test case prioritization in regression testing considering requirements dependencies. In Proceedings of the 1st ACM International Workshop on AI and Software Testing/Analysis (AISTA 2021). Association for Computing Machinery, New York, NY, USA, 1–8. <https://doi.org/10.1145/3464968.3468407>, (rank A CORE conference, workshop)

5. **A. Vescan**, C. Serban, 2020. Facilitating model checking learning through experiential learning. In Proceedings of the 2nd ACM SIGSOFT International Workshop on Education through Advanced Software Engineering and Artificial Intelligence (EASEAI 2020). Association for Computing Machinery, New York, NY, USA, 13–19, <https://doi.org/10.1145/3412453.3423196>, (rank A* CORE conference, workshop)
6. O.-C. Modoi, **A. Vescan**, Environmental Protection and Social Entrepreneurship Activities: The Vision of the Young People. Environmental Sciences Proceedings. 2021; 9(1):15. <https://doi.org/10.3390/environsciproc2021009015>
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9. C.-M. Pinteá, **A. Vescan**, Bio-inspired components for a bandwidth problem, abstract book "Gheorghe Vrănceanu" National Conference on Mathematics and Informatics with international participation NCMI2011 Bacau, pp.15, 2011
10. C. Serban, **A. Vescan** and H. F. Pop, "A Formal Model for Component-Based System Assessment," 2010 Second International Conference on Computational Intelligence, Modelling and Simulation, 2010, pp. 261-266, <https://doi.org/10.1109/CIMSim.2010.20>.
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12. **A. Vescan**, "Pareto Dominance-Based Approach for the Component Selection Problem," 2008 Second UKSIM European Symposium on Computer Modeling and Simulation, 2008, pp. 58-63, <https://doi.org/10.1109/EMS.2008.16>.
13. **A. Vescan**, H.F. Pop, Automatic Configuration for the Component Selection Problem, Proceedings of the 5th international conference on Soft computing as transdisciplinary science and technology (Workshop on Autonomous and Autonomic Software-based Systems (ASBS)), 27-31 October, Cergy-Pontoise, France, ISBN: 978-1-60558-046-3, pp. 479–483, 2008, <http://sigappfr.acm.org/cstst08/>
14. C. M. Pinteá, **V. Vescan**, *The Labyrinth Problem: Component Model with Pharaoh System*, Proceedings of International Conference on Fundamental Science, ICFS 2007, Applied mathematics and computer science section, 9–10 November, Oradea, Romania, ISBN 978-973-759-367-2, pp. 82–86, 2007.

15. **A. Vescan**, *Modeling component compositions and assembly execution*, Proceedings of the Second Annual International Conference of Students, Post-graduates and Young Scientists, Computer Science and Engineering, Publishing House of Lviv Polytechnic National University, 4–6 October, Lviv, Ukraine, ISBN: 978-966-553-649-9, pp. 20–24, 2007.
16. **A. Vescan** *Components ordered assembly construction based on temporal restraint*, Proceedings of the 3rd Doctoral Workshop on Mathematical and Engineering Methods in Computer Science, 26–28 October, Znojmo, Czechia, Eds.: Ludek Matyska, David Antos, Milan Ceska, Mojmir Kretinsky, Petr Hlineny, Publisher Ing. Zdenek Novotny CSc., ISBN: 978-80-7355-077-6, pp. 249–256, 2007.
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2. A. Budur, C. Şerban, **A. Vescan**, (2019). Predicting Reliability of Object-Oriented Systems Using a Neural Network. *Studia Universitatis Babeş-Bolyai Informatica*, 64(2), 65-79. <https://doi.org/10.24193/subbi.2019.2.05>
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9. **A. Vescan**, C. Grosan, Evolutionary Multiobjective Approach for Multilevel Component Composition, *Studia Universitatis Babeş-Bolyai Informatica*, pp. 18-32, 2010
10. **A. Vescan**, M. Frentiu, Teaching Model Checking to Undergraduates, *Studia Universitatis Babeş-Bolyai Informatica*, pp. 45-50, 2010
11. C. M. Pintea, **A. Vescan**, *Component-based Ant System for a Biobjective Assignment Problem*, *Studia Universitas Babes-Bolyai, Seria Informatica*, Vol. LII, No. 2, pp. 21–32, 2007.
12. C. Serban, **A. Vescan**, *Metrics-based selection of a component-based system development*, Special Issue of *Studia Universitatis Babes-Bolyai, Seria Informatica*, Proceedings of the International Conference on Knowledge Engineering: Principles and Techniques, 6–8 June, Cluj-Napoca, Romania, University Press, ISSN:1224-869X, pp. 324–331, 2007.
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14. **A. Vescan**, S. Motogna, *Syntactic analysis of component composition*, *Journal of Pure Mathematics and Applications*, Proceedings of the 6th Joint Conference on Mathematics and Computer Science, 12–15 July, Pecs, Hungary, Vol. 17, No. 3 - 4, pp. 527—537, 2006 (*indexed cover-by-cover by Mathematical Reviews*), <http://www.bke.hu/puma>
15. **A. Fanea**, S. Motogna, L. Diosan, L. *Automata-Based Component Composition Analysis*, *Studia Universitas Babes-Bolyai, Seria Informatica*, Vol. L, No. 1, pp. 13–20, 2006.
16. **A. Fanea**, L. Diosan, *Components Execution Order using Genetic Algorithms*, *Studia Universitas Babes-Bolyai, Seria Informatica*, Volume L, No. 2, pp. 23–32, 2005.
17. **A. Vescan**, Dependencies in the Component Selection Problem, *Creative Mathematics and Informatics*, pp.532-537, 2008
18. C. Serban, **A. Vescan**, H. F. Pop, Selection based on Fuzzy Clustering Analysis, *Creative Mathematics and Informatics*, pp.505-510, 2008.
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20. C. Serban, **A. Vescan**, Metrics-based selection of a component assembly, Special Issue of Studia Universitatis Babes-Bolyai, Seria Informatica: Proceedings of The International Conference on Knowledge Engineering: Principles and Techniques, 6 -8 June, Cluj-Napoca, Romania, University Press, pp.324 - 331, ISBN:978-973-610-556-2, 2007
21. L. Diosan, **A. Fanea**, D. Dumitrescu, Genetic algorithms based on Ising machine, International Journal of Information Technology and Intelligent Computing, ISSN: 1895-8648, vol.1 no.3, pp. 585 - 594, 2006, <http://itic.wshe.lodz.pl>
22. Z. I. Lazar, B. Pârv, **A. Fanea**, J. R. Heringa, S. W. de Leeuw, COMODI: Guidelines for a Component-Based Framework for Scientific Computing, Studia Universitatis Babes-Bolyai, Informatica, Vol. XLIX, No. 2, pp. 91 - 101, 2004.

National conferences papers

1. **A. Fanea**, *Specification, Construction and Execution of a Component-Based Model*, Proceedings of Cluj Computer Science Academic Colloquium, 1–2 June, Cluj-Napoca, Romania, pp. 87–92, 2005.
2. **A. Fanea**, S. Motogna, *A Formal Model For Component Composition*, Proceedings of Cluj Academic Days National Symposium, 14–22 June, Cluj-Napoca, Romania, pp. 160–167, 2004.
3. **A. Fanea**, L. Diosan, *Designing a Component-Based Machine Using Multi Expression Programming*, Proceedings of Cluj Computer Science Academic Colloquium, 1–2 June, Cluj-Napoca, Romania, pp. 93–98, 2005.

National journals papers

1. **A. Vescan**, C. M. Pinteaa, *Ant Colony Component-based System for Traveling Salesman Problem*, Journal of Applied Mathematical Science, ISSN 1312-885X, Vol. 1, No. 28, pp. 1347–1357, 2007.
2. C. Serban, **A. Vescan**, *Metrics for Component-based Development*, Creative mathematics and informatics, ISSN: 1843-441X, Vol. 16, pp. 143–150, 2007.
3. **A. Vescan**, S. Motogna, Overview and Architecture of a Component Modeling Tool, Creative Mathematics and Informatics, vol. 16, pp. 159 - 165, ISSN: 1843-441X, 2007
4. **A. Fanea**, C. M. Pinteaa, *A component based-model for a NP-hard problem*, Annals of Oradea University, Fascicola Matematica, Vol. XII, pp. 91–100, 2005, http://stiinte.uoradea.ro/en/auofm_contents.htm

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)

2. Session Chair of Bug Detection (part of Research Papers) (ASE), 2023
International Conference on Automated Software Engineering, Rank A* Conference,
15:30 - 17:00 Room D,
<https://conf.researchr.org/track/ase-2023/ase-2023-papers?>,
Chair: Andreea Vescan (Babes-Bolyai University, Romania)

Conference organization

1. F-TRANSFER workshop at the SANER conference (CORE RANK A)
2024
SANER Accepted workshops: <https://conf.researchr.org/track/saner-2024/saner-2024-workshops-and-tutorials-track-#Accepted-workshops>,
<https://www.cs.ubbcluj.ro/~avescan/f-transfer/>
2. 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

For the full list of PC and OC, please use the information at this link: <https://www.cs.ubbcluj.ro/~avescan/?q=node/65>

- EASE 2022, 2023, 2024 - International Conference on Evaluation and Assessment in Software Engineering,
Research track, Rank A Conference
<https://conf.researchr.org/home/ease-2022>
- ASE 2021, 2023 -International Conference on Automated Software Engineering
Artifact Evaluation Track (2021), Research track (2023), Rank A* Conference
<https://conf.researchr.org/home/ase-2021>
- ICPC - 2021, 2022, 2024 - International Conference on Program Comprehension (ICPC)
Education track (2021),Research track (2022), RENE track (2024), Rank A Conference
<https://conf.researchr.org/committee/icpc-2021/icpc-2021-programming-education-program-committee>
- MSR - 2021, 2022, 2023, 2024 - Mining Software Repositories Conference
Technical Papers track (2021, 2022, 2023, 2024), Registered Reports-track (2024), Rank A Conference
<https://2021.msrconf.org/>
- ICSME - 2021, 2022, 2023 - International Conference on Software Maintenance and Evolution
Tool Demo Track (2021, 2022, 2023), 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 - 2024 - 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, 2023, 2024 - International Conference on Software Engineering, SEET - Software Engineering Education and Training Track,
SEET - Software Engineering Education and Training Track, SEIS - Software Engineering in Society within the Software Engineering in Society Track, Artifact Evaluation within the Artifact Evaluation Track,
SEET Track(2022, 2023, 2024), SEIS Track (2024), AE Track (2024), 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/>

Reviewer - International Journals

- [Andrea Vesca](#) - WOS - Verified peer reviews
- **Reviewer - CORE Rank A Journals**
 - 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 paper) <http://ieeaccess.ieee.org/>
 - Neurocomputing (1 paper in 2 phases),
<https://www.journals.elsevier.com/neurocomputing>

- International Journal of Information Technology and Decision Making (1 paper)
- Logic Journal of the IGPL (3 papers)
- Applied Soft Computing (3 papers +1 (2022))
- Information sciences (1 paper 2023)
- **Reviewer - CORE Rank B Journals (1 journal, 1 paper)**
 - Engineering Optimization (1 paper)
 - Software: Practice and Experience (1 paper-2022)
 - Studies in Educational Evaluation (1 paper-2022, 1 paper-2023)
- **Reviewer - CORE Rank C Journals (1 journal, 25 papers)**
 - Romanian Journal of Information Science and Technology (25 papers)
- **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>

Languages

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

January 12, 2024

Assoc. Prof. Andreea Vescan, PhD habil.