

ANEXA 1

APROBAT,
Director Școală Doctorală,

APROBAT,
Dire

Către Conducerea Consiliului Studiilor Universitare de Doctorat din cadrul IOSUD-UVT
În atenția Domnului Director CSUD

Domnule Director,

Subsemnata, **Erașcu Mădălina**, având funcția de **conferențiar**, din cadrul **Facultății de Matematică și Informatică, Departamentul Informatică**, Vă rog să binevoiți a lua în considerare afilierea mea la IOSUD-UVT, în calitate de conducător de doctorat în domeniul **Informatică**.

Menționez faptul că am obținut certificatul de abilitare și calitatea de conducător de doctorat în domeniul **Informatică**, fapt confirmat prin Ordinul ministrului nr. **5489**, din data de **09.07.2024**, pe care îl depun ca document atașat prezentei cereri.

Menționez de asemenea că momentan nu sunt afiliată în alt IOSUD și nu îndrum studenți-doctoranzi decât în IOSUD-UVT, urmând ca în cazul în care acest lucru se modifică să notific în scris IOSUD-UVT în termen de 30 de zile.

Data,
17.07.2024

Semnătura,

Aprobat prin HS nr. 19 din 26.09.2024

**ORDIN****privind acordarea atestatului de abilitare**

Având în vedere:

- prevederile art. 265 din Legea învățământului superior nr. 199/2023, cu modificările și completările ulterioare;
 - prevederile art. 1 alin. (4) din ordinul ministrului educației nr. 6072/2023 privind aprobarea unor măsuri tranzitorii aplicabile la nivelul sistemului național de învățământ preuniversitar și superior, cu modificările ulterioare;
 - prevederile OMENCS nr. 6129/2016 privind aprobarea standardelor minime necesare și obligatorii pentru conferirea titlurilor didactice din învățământul superior, a gradelor profesionale de cercetare-dezvoltare, a calității de conducător de doctorat și a atestatului de abilitare;
 - prevederile OMEC nr. 4621/2020 pentru aprobarea Regulamentului de organizare și funcționare a Consiliului Național de Atestare a Titlurilor, Diplomelor și Certificatelor Universitare;
 - prevederile OMEC nr. 4676/2020 privind componența nominală a Consiliului Național de Atestare a Titlurilor, Diplomelor și Certificatelor Universitare pentru mandatul 2020 – 2024, cu modificările și completările ulterioare;
 - prevederile OMEC nr. 5229/2020 pentru aprobarea metodologiilor referitoare la acordarea atestatului de abilitare, acordarea titlului de doctor, precum și la soluționarea sesizărilor cu privire la nerespectarea standardelor de calitate sau de etică profesională, inclusiv cu privire la existența plagiatului, în cadrul unei teze de doctorat;
 - prevederile art. 32 din Anexa la OME nr. 3998/2024 pentru aprobarea Metodologiei de acordare a atestatului de abilitare;
 - decizia CNATDCU privind acordarea atestatului de abilitare, din data de 07.07.2024, referitoare la dosarul nr. F-Abil-2907/12.10.2023;
 - referatul de aprobare în vederea elaborării ordinului privind acordarea atestatului de abilitare, înregistrat cu nr. 351/DGÎU/09.07.2024;
- În temeiul prevederilor art. 13 alin. (3) din Hotărârea Guvernului nr. 731/2024 privind organizarea și funcționarea Ministerului Educației;

MINISTRUL EDUCAȚIEI**emite prezentul ordin:**

Art. 1 – Se acordă atestatul de abilitare, în *domeniul de studii universitare de doctorat Informatică*, doamnei **ERAȘCU MĂDĂLINA**, titular la Universitatea de Vest din Timișoara.

Art. 2 – Prezentul ordin reprezintă atestatul de abilitare.

Art. 3 – Direcția Generală Învățământ Universitar, din cadrul Ministerului Educației, comunică prezentul ordin IOSUD/IOD Universitatea de Vest din Timișoara, unde a fost susținută teza de abilitare, cu obligația ca această instituție să îl comunice candidatului.

MINISTRU**Ligia DECA****București,****Nr. 5489 / 09.07. 2024**

ANEXA 3

REFERAT

al Consiliului Școlii Doctorale de ȘTIINȚE EXACTE ȘI ȘTIINȚELE NATURII
privind avizarea / ~~neavizarea~~ afilierii la
Școala doctorală ȘTIINȚE EXACTE ȘI ȘTIINȚELE NATURII,
domeniul INFORMATICĂ
a doamnei Conf. univ. dr. ERAȘCU MĂDĂLINA

Consiliul Școlii Doctorale, reunit la data de 04.09.2024 a analizat dosarul de afiliere la școala doctorală de ȘTIINȚE EXACTE ȘI ȘTIINȚELE NATURII, pentru domeniul INFORMATICĂ, de către candidatul CONF. UNIV. DR. MĂDĂLINA ERAȘCU și a decis **avizarea** afilierii în cadrul IOSUD – UVT.

Motivare:

Afilierea doamnei Conf. univ. dr. Mădălina Erașcu este utilă în vederea consolidării domeniului Informatică din cadrul Școlii doctorale de Științe Exacte și Științele Naturii.

Consiliul Școlii Doctorale :

Director Școală Doctorală Prof. univ. dr, Mihail Lungu

Membri:

Prof. univ. dr. Remus Crețan

Prof. univ. dr. Marius Paulescu

Prof. univ. dr. Lucian Pârvulescu

Prof. univ. dr. Adina-Luminița Sasu

Prof. univ. dr. Gabriela Vlase

Prof. univ. dr. Daniela Zaharie

Aprobat prin HS nr. 19 din 26.09.2024

ANEXA 4

REFERAT

al Consiliului Studiilor Universitare de Doctorat al UVT privind aprobarea / respingerea
afilierii la Școala doctorală de Științe Exacte și Științele Naturii
a domnului Conf. univ. dr. MĂDĂLINA ERAȘCU

CSUD, reunit la data de 10.09.2024 a analizat solicitarea de afiliere a candidatului
Conf. univ. dr. Mădălina Erașcu, domeniul de știință Informatică, și a decis **aprobarea** afilierii
la Școala doctorală Științe Exacte și Științele Naturii.

Motivare (numai pentru cazul neaprobării deciziei de la nivel de CSUD):

___ nu este cazul ___

Director CSUD,
Prof. univ. dr. Florin-Alin Sava



Aprobat prin HS nr. 19 din 26.09.2024

Curriculum Vitae

Dr. Mădălina Eraşcu

ASSOCIATE PROFESSOR

West University of Timisoara
Fac. of Math. and Informatics
Department of Computer Science
Blvd. Vasile Parvan 4
300223, Timisoara, Timis, RO

Homepage: <https://merascu.github.io>

RESEARCHER

Institute e-Austria
Blvd. Vasile Parvan 4, room 045B
300223, Timisoara, Timis, RO

Research Interests

Formal Software Analysis, in particular satisfiability checking and synthesis;
Automated Reasoning, in particular SAT/SMT solving; and
Symbolic Computation, in particular Computer Algebra,
with applications in Artificial Intelligence and Distributed Computing
Computer Science Education
Technical Entrepreneurship and Innovation Education

Personal Data

Citizenship: Romanian

Languages: Romanian (native speaker), English (fluently), Spanish (intermediate), German (intermediate), French (beginner)

Education

2024 Habilitation in Computer Science, West University of Timisoara, Romania

Habilitation thesis: “Formal Methods Supported by Symbolic Computation for Engineering Applications in Cloud Computing and Artificial Intelligence”

2012 PhD in Computer Science, Research Institute for Symbolic Computation, Johannes Kepler University, Linz, Austria

PhD thesis: “Computational Logic and Quantifier Elimination Techniques for (Semi-)automatic Static Analysis and Synthesis of Algorithms”

2008 M.Sc. in Computer Science, Johannes Kepler University, Linz, Austria

Master’s thesis: “Automated Formal Static Analysis and Retrieval of Source Code”

2006 B.Sc. in Computer Science, West University, Timisoara, Romania

Bachelor’s thesis: “XML Web Services using ADO.NET”

Career History

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Sept 2021 – present Associate Professor in Dept. of Computer Science, West University of Timisoara, Romania

Feb 2014 – present Researcher at Institute e-Austria, Timisoara, Romania

Jan 2022 – May 2022 Visiting Scholar at AIN Center for Entrepreneurship, University of Rochester, USA in the framework of a Fulbright-RAF scholarship

Sep 2017 – Mar 2019 Innovation Researcher at Continental Automotive Romania

Feb 2016 – Sept 2021 Lecturer in Dept. of Computer Science, West University of Timisoara, Romania

Feb 2014 – Feb 2016 Associate Assistant in Dept. of Computer Science, West University of Timisoara, Romania

Feb 2014 – Dec 2014 Postdoctoral Researcher at Dept. of Computer Science, West University of Timisoara, Romania

Jan 2013 – Jan 2014 Postdoctoral Researcher at Research Institute for Symbolic Computation, Johannes Kepler University, Linz, Austria

Oct 2008 – Dec 2012 PhD Researcher at Research Institute for Symbolic Computation, Johannes Kepler University, Linz, Austria

Jan 2011 – Jun 2011 Research Scholar at Dept. of Mathematics, North Carolina State University, Raleigh, USA

Honors, Awards, Fellowships

Outstanding benchmark award for the traffic sign recognition benchmark (<https://github.com/apostovan21/vnncomp2023>) in the Verification of Neural Networks Competition 2023 (<https://sites.google.com/view/vnn2023>) held in conjunction with the 6th Workshop on Formal Methods for ML-Enabled Autonomous Systems (FoMLAS'23) and affiliated with the 35th International Conference on Computer-Aided Verification (CAV'23).

The Fulbright-RAF Scholar Award in the field of Entrepreneurship & Entrepreneurial Studies for a semester-long fellowship (Spring 2022) in residence at University of Rochester, AIN Center for Entrepreneurship, USA.

Didactic grant (<https://cda.uvt.ro/granturididactice/>) offered by West University of Timisoara aiming to support the implementation and innovation of the reflective-collaborative model of tools in teaching activities carried out within the Computer Science Department, West University of Timisoara (December 2020).

BringITon2018 (<http://bringiton.info.uaic.ro>) mention award for *MANeUveR: Management Agency for Cloud Resources*; December 13-14, 2018. BringITon2018 is a workshop for promoting and capitalizing the interaction between computer science in academia and business environment.

DOC-fORTE-fellowship of the Austrian Academy of Sciences for carrying out research at Research Institute for Symbolic Computation, June 2011 – November 2012. Competitive fellowship: 25 selections out of approx. 90 applications (45 000 EUR).

Marshall Plan Foundation scholarship for research visit at North Carolina State University, USA, January 2011 – June 2011 (8.000 EUR).

Microsoft Research grant for the participation fee and living expenses at the Marktoberdorf Summer School, August 2009.

Upper Austrian Government Scholarship for 1st year of PhD studies, 2008 – 2009.

Management

- Sep 2022 – Aug 2024** Director (PI) of SAGE: A Symbiosis of Satisfiability Checking, Graph Neural Networks and Symbolic Computation (<https://merascu.github.io/links/SAGE.html>). Funding: UEFISCDI. Budget: 450000 RON (approx. 94000 EUR). Competitive selection: 162 financed projects out of 743 applications.
- Oct. 2022 – Sept. 2023, Oct. 2023 – Dec 2023** Leader, resp. vice-leader, of the WG3 (Program Verification) of the COST action CA20111: European Research Network on Formal Proofs (<https://europroofnet.github.io>). Positions not remunerated.
- Sep 2017 – Dec 2018** Director (PI) of MANeUveR: Management Agency for Cloud Resources (<https://merascu.github.io/links/MANeUveR.html>). Funding: UEFISCDI. Budget: 475000 RON (approx. 102000 EUR). Competitive selection: 252 financed projects out of 2074 applications.

Member

- 2024 – present** COST Action CA22129: InsectAI - Using Image-based AI for Insect Monitoring & Conservation (<https://insectai.eu/>)
- 2021 – present** COST Action CA20111: European Research Network on Formal Proofs (<https://europroofnet.github.io>)
- 2016 – 2018** SC^2 Satisfiability Checking and Symbolic Computation - Bridging Two Communities to Solve Real Problems. Funding: European Commission – H2020-FETOPEN Programme
- 2016 – 2017** Matlib4Space - Prequalification of a Mathematical Library for Flight Software. Funding: European Space Agency.
- 2015 – 2017** DICE: Developing Data-Intensive Cloud Applications with Iterative Quality Enhancements. Funding: European Commission – H2020-ICT Programme
- 2014 – 2016** SPECS: Secure Provisioning of Cloud Services based on SLA Management. Funding: European Commission – FP7-ICT Programme
- 2014** HOST: High Performance Computing Service Centre. Funding: European Commission – FP7-REGPOT Programme
- 2013** mpcEnergy: Increasing the Energy Efficiency in Buildings by Energy Management using Refined Process Modeling and Optimization Strategies. (In German: Höhere Energieeffizienz beim Energiemanagement in Gebäuden durch verfeinerte Prozessmodellierung und Optimierungsstrategien). Funding: Upper Austrian Government
- 2009–2010** Doktoratskolleg *Computational Mathematics* W1214: *Formal Theory and Algorithmics of Non-commutative Gröbner Bases*. Funding: FWF (Austrian Science Fund)
- 2008–2010** Austrian-Hungarian Bilateral Project: *Verified and Certified Software Components*. Funding: OeAD GmbH
- 2008–2010** Austrian-Ukrainian Bilateral Project: *Automated Processing of Mathematical Knowledge in Natural Style*. Funding: OeAD GmbH
- 2008–2010** Austrian-Romanian Bilateral Project: *Scientific Computing Platform*. Funding: OeAD GmbH
- 2006–2008** THEOREMA: Proving, Solving and Computing in the Theory of Hilbert Spaces (SFB F1302-3). Funding: FWF (Austrian Science Fund)

Teaching Projects

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Member

2020-2021 ROSE "Socio-educational Tutoring, Adaptation, Remediation and Counseling Services provided by Faculty of Mathematics and Informatics - the key to combating university dropout (STARC-IMF)" (in Romanian: ROSE "Servicii socio-educative de Tutorat, Adaptare, Remediere și Consiliere oferite de FMI - cheia pentru combaterea abandonului universitar (STARC-FMI)") tutoring topics on algorithms and programming (C/C++).

2020-2021 ROSE "Counseling, Tutoring and Specific Training for Efficient University Education in Mathematics and Informatics" (in Romanian: ROSE "CONSiliere, Tutorat și INSTRUIRE specifică pentru educație Universitară Eficientă în domeniul Matematicii și Informaticii (CONTINUE MI)") tutoring topics on algorithms and programming (C/C++).

Entrepreneurship Projects

Member

Apr 2022 – June 2023 INNOUNITA – INNOvation capacity building in UNITA (EIT Food KIC KAVA 21383 HEI INITIATIVE: PROJECT 711 INNOUNITA), member in WP6 - Entrepreneurship Education

Formal Training

Sept – Nov 2022 Participation and selection in the Demo Day in the ADRVest Accel (<https://www.adrvestaccel.ro>)

Nov 17 – 26, 2021 *Entrepreneurial Thinking and Entrepreneurship Training* Facilitator: INNOUNITA – INNOVATION CAPACITY BUILDING IN UNITA

Jul 14–24, 2020 *Entrepreneurial Mindshift for Educators*, Babson Academy; participation by invitation from Asociația pentru Educație Antreprenorială (AEA), Romanian American Foundation (RAF) and CIEE

Feb 2020 *University-specific didactic and psycho-pedagogy*, West University of Timișoara, Romania; included the lectures *Curriculum design*, *Modern education methods*, *Development of the teaching materials*, *Class management*

Jul 2019 *Eastern European Machine Learning Summer School*; Bucharest, Romania,

2009 *Summer School on Verification Technology, Systems & Applications*; Nancy, France

2009 *Summer School on Logics and Languages for Reliability and Security*; Marktoberdorf, Germany

Professional Experience

Teaching

1. At West University of Timișoara, Romania

see <https://merascu.github.io/links/teaching.html>

2. At Strascheg Center for Entrepreneurship, University of Applied Sciences, Munchen, Germany

2024, 2023 One week program as a mentor for teams of international students on topics covering Design Thinking methodology in the framework of an Erasmus+ Teaching Mobility (Master and Undergraduate level). Additionally, in 2024, I delivered the presentation *Research Basics*.

3. At Johannes Kepler University Linz, Austria

2019 One week lecture (8 hours) on symbolic execution for program verification in the framework of Erasmus+ Teaching Mobility (Master and Undergraduate level)

2013 One semester Logic-based Program Verification (Master and Undergraduate level)

4. At Universidad de Cantabria, Santander, Spain

2016 One week lecture on quantifier elimination using cylindrical algebraic decomposition in the framework of Erasmus+ Teaching Mobility (Master level)

5. At Nesin Summer School, Sirince, Turkey

July 30 – August 5, 2012 Automated Theorem Proving (all university levels)

August 29 – September 4, 2011 Cylindrical Algebraic Decomposition (Master and Undergraduate Course)

Advising (selected)

2022 – 2023 MSc thesis, Eduard Laitin: *Speeding Up the Deployment in the Cloud of Component-based Applications using Graph Neural Networks and SMT solving*. A paper based on this thesis has been accepted at IEEE IJCNN 2024.

2022 – 2023 MSc thesis, Vlad Luca: *SAGE - A Tool for Optimal Deployments in Kubernetes Clusters*. A paper based on this thesis has been accepted at IEEE CloudCom 2023.

2022 – 2023 MSc thesis, Andreea Postovan: *Binarized Neural Networks for Traffic Sign Recognition: Training and Verification*. Two papers based on this thesis have been accepted at 32nd International Conference on Artificial Neural Networks (ICANN) 2023 and Working Formal Methods Symposium (FROM) 2023. Additionally, a set of benchmarks have been scored in the VNN-COMP 2023.

2021 – 2022 Summer Practice and FMI Internship, Bogdan David: *Applications for the management of Cloud resources*; mention award at the Students Scientific Session "Traian Lalescu" at Transilvania University, November 25-27, 2022, Brasov; A paper based on this work was accepted to SC-Square workshop 2022 affiliated to FLOC2022.

2020 – 2021 Summer Practice and BSc thesis, Andrei Iovescu: *Benchmark Problems for the Constraints Satisfaction Problems Repository*, 2020, honorable mention at International Student Conference StudMath-IT, November 26-27, 2020; Faculty of Exact Sciences, "Aurel Vlaicu" University of Arad.

2019 BSc thesis, Răzvan Meteş: *Evaluation of a Constrained Optimization Benchmark for Optimization Modulo Theory*; paper based on the thesis was accepted at the SMT2019 workshop affiliated to SAT2019.

2018 BSc thesis, Al Asaad Bashar, *Detecting Fake News*; a paper based on the thesis was accepted at NCA workshop affiliated to SYNASC 2018, IEEE proceedings.

University Committees

2019 - 2022 Member in the Council of Mathematics and Informatics, West University of Timisoara

Programming

Sep 2017 – Mar 2019 Innovation Researcher at Continental Automotive Romania SRL; Concept and development of a Sensor Error Model prototype, Patent writer

Oct 2007 – Aug 2008 Master's thesis intern at Mindbreeze Software GmbH, Linz, Austria

May 2005 – Sep 2005 Summer and Bachelor's thesis intern at S.C. memIQ S.R.L., Timisoara, Romania

SAGE: A Symbiosis of Satisfiability Checking, Graph Neural Networks and Symbolic Computation (<https://github.com/SAGE-Project>)

MANeUveR: Management Agency for Cloud Resources (<https://github.com/Maneuver-PED>)

Professional Activities

Invited Speaker

Sep 16-18, 2024 Working Formal Methods Symposium 2025, Timisoara, Romania. Tutorial invited speaker.

Oct 1-6, 2023 Dagstuhl Seminar 23401 on Automated mathematics: integrating proofs, algorithms and data, Schloss Dagstuhl – Leibniz-Zentrum für Informatik in Germany

Feb 13-18, 2022 Dagstuhl Seminar 22072 on New Perspectives in Symbolic Computation and Satisfiability Checking, Schloss Dagstuhl – Leibniz-Zentrum für Informatik in Germany

Sep 3-5, 2019 Working Formal Methods Symposium 2019, Timisoara, Romania

PC Chair

2024 Int. Conference on Integrated Formal Methods (iFM) - Doctoral Programme; 13–15 November 2024, University of Manchester, UK.

2022 Int. Conference on Intelligent Computer Mathematics - Doctoral Programme; September 19-23, 2022 in Tbilisi, Georgia.

Member of Program Committees

2024 26th Workshop on Formal Techniques for Java-like Programs, 20 September 2024, Vienna, Austria, co-located with ISSSTA/ECOOP.

2024 20th Artificial Intelligence Applications and Innovations (AIAI 2024), Ionian University, Corfu, Greece; June 27-30, 2024.

2024 19th European Dependable Computing Conference, Student Forum Track, 8-11 April 2024, Leuven, Belgium

2024 30th International Conference on Tools and Algorithms for the Construction and Analysis of Systems (TACAS). April 6-13, 2024, Luxembourg Ville, Luxembourg.

2024, 2023 International Conference on Artificial Neural Networks (ICANN).

2024 – 2015 Int. Symposium on Symbolic and Numeric Algorithms for Scientific Computing, Logic and Programming Track (SYNASC)

2023, 2022, 2018, 2017, 2015 Int. Conference on Intelligent Computer Mathematics (CICM)

2022 SC-square workshop, August 12, 2022, Haifa, Israel Part of IJCAR 22, at FLOC 2022

2022, 2020 International SPIN Symposium on Model Checking of Software (SPIN)

2019 Workshop on Microservices: Science and Engineering (MSE), affiliated with Technology of Object-Oriented Languages and Systems (TOOLS)

2018 The Sixth International Conference on Mining Intelligence and Knowledge Exploration (MIKE)

2018 Workshop on Microservices: Science and Engineering (MSE), affiliated with Software Technologies⁷ Applications and Foundations (STAF)

2017 Workshop on Microservices: Science and Engineering (MSE), affiliated with 15th International Conference on Software Engineering and Formal Methods (SEFM)

2015 Fourth International Seminar on Program Verification, Automated Debugging and Symbolic Computation

Subreviewer

2023 The 14th International Symposium on Frontiers of Combining Systems (FroCoS 2023)

Journal/Book Referee

2017 Reviewer for International Journal of Grid and Utility Computing

2017 External reviewer for Mathematics in Computer Science (Special Issue SYNASC 2016)

2013 Reviewer for J. of Universal Computer Science

2012 Reviewer for Int. Symposium on Symbolic Computation in Software Sciences

2010 Reviewer for J. of Symbolic Computation (Special Issue Workshop on Invariant Generation)

2010 – 2011 Assistant Editor for <http://www.scholarpedia.org/>

Member of Organizing Committees

Feb 8-9, 2023 Organizer of the meeting of WG3 (Program Verification) of EuroProofNet (<https://europroofnet.github.io>), West University of Timisoara, Romania

July 26-31, 2021 Organizer of C1CM-14 (C1CM 2021), Timisoara, Romania

Member of Professional Organizations

Association for Entrepreneurial Education (<https://http://startantreprenoriat.eu>)

Association for Automated Reasoning (<https://aarinc.org>).

Referee for Funding Agencies

2022 – 2024 European Commission (EC): HORIZON-SESAR call <https://www.sesarju.eu/> (research call)

2023 University of Parma – Program for research projects submitted by internal junior researchers (research call)

2022 Romanian Ministry for Education (MEN), PNNR call (acquisition call): Universities Digitalisation (https://edu.ro/ghid_sollicitant_granturi_digitalizare_universitati)

2022 Romanian Ministry for Education (MEN), PNNR call (acquisition call): School equipment for pre-university education

2020 Italian Ministry for University and Research (MUR), PRIN call (research call)

Oct 2020 – present Organizer of the Entrepreneurship Café – informal meetings that facilitate the learning and practice of entrepreneurship targeted for Computer Science students and not only

Aug 23 – 25, 2021 Mentor at Flight Festival Hackathon

2021 – 2022 Ambassador and Mentor at Innovation Labs

Apr 24th –26th 2020 Mentor at #EuvsVirus Hackathon

In charge with logistics at SYNASC 2014, FLOC 2010, FPSAC 2009, SCCS 2008, RTA 2008, Calculemus 2007, WING 2007

Media Appearances

Oct 2022 Media appearances (Facebook: [www.shorturl.at/AH159](https://www.facebook.com/AH159), LinkedIn: [www.shorturl.at/jMT02](https://www.linkedin.com/company/jMT02)) related to MANeUveR startup which participated in ADRVest Accel (<https://www.adrvestaccel.ro>)

Jan 7th, 2022 People of Innovation Labs #12 (<https://fb.watch/gHHdYknqTH/>)

Last updated: July 17, 2024

Anexa 1

Fișa de verificare a criteriilor CNATDCU - Informatică

Numele și prenumele: Erașcu Mădălina

Funcția didactică: Conferențiar

Departamentul: Informatică

Criteriu	Praguri (conform documentului Anexa2-Informatica.pdf) vezi http://informatica-universitaria.ro/ppages/16/	Realizat	Criteriu îndeplinit (DA/NU)
Perspectiva B	conferențiar: 32	64.67	DA
	conferențiar: $A^* + A + B \geq 16$	47.00	DA
	profesor: 56	64.67	DA
	profesor: $A^* + A \geq 24$	24.00	DA
	profesor: $A^* + A + B \geq 40$	47.00	DA
Perspectiva C	conferențiar: 48	145.67	DA
	conferențiar: $A^* + A + B \geq 12$	84.67	DA
	profesor: 120	145.67	DA
	profesor: $A^* + A + B \geq 40$	84.67	DA
Perspectiva D	conferențiar: 36	135.80	DA
	profesor: 60	135.80	DA
TOTAL	conferențiar: 116	346.13	DA
	profesor: 236	346.13	DA
Indicele h (Hirsch)	ISI WoS	4.00	
	SCOPUS	6.00	
	Google Scholar	7.00	

Perspectiva B (reviste + conferinte)	Punctaj
Total categoria A*	16.00
Total categoria A	8.00
Total categoria B	23.00
Total categoria C	17.67
Total categoria D	0.00
Total categoria A*+A	24.00
Total categoria A*+A+B	47.00
TOTAL	64.67

Perspectiva C	Punctaj
Total citări forumuri de categoria A*	24.00
Total citări forumuri de categoria A	40.00

Total citări forumuri de categoria B	20.67
Total citări forumuri de categoria C	22.33
Total citări forumuri de categoria D	38.67
Total citări forumuri de categoria A* + A + B	84.67
TOTAL	145.67

Indicator	Punctaj
PUBLICAREA UNUI CURS UNIVERSITAR	4
Granturi	31
Membru comitet stiintific	26
Organizare evenimente	2
Consolidarea de echipe	3.3
Dezvoltarea de pachete si instrumente software	8
Profesor/cercetător asociat/visiting	48
Premii	11
Keynote/invited speaker/professor la evenimente/universitati	4
	137.30

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Anexa 1

Fișa de verificare a criteriilor CNATDCU - Informatică

Numele și prenumele: Erașcu Mădălina

Funcția didactică: Conferentiar

Departamentul: Informatică

A. LUCRĂRI PUBLICATE ÎN								
Nr. crt.	Titlu	Autori	Revista	Volum, nr., pg.	An	Categorie forum	Nr. autori	Punctaj P

1	Scalable Optimal Deployment in the Cloud of Component-based Applications using Optimization Modulo Theory, Mathematical Programming and Symmetry Breaking (https://www.sciencedirect.com/science/article/abs/pii/S2352220821000274)	M. Eraşcu, F. Micota, D. Zaharie	Journal of Logical and Algebraic Methods in Programming	Vol. 121, June 2021, https://doi.org/10.1016/j.jlamp.2021.100664	2021	B	3	4	In 2021 jurnalul este in categoria C (https://uefiscdi.gov.ro/premierea-rezultatelor-cercetarii-articole), insa am luat in considerare listele din 2020 unde este in categoria B (vz. https://uefiscdi.gov.ro/resource-868245-clasament)
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2	Real Quantifier Elimination for the Synthesis of Optimal Numerical Algorithms (https://www.sciencedirect.com/science/article/pii/S0747717115001091) (Case Study: Square Root Computation)	M. Erascu, H. Hong	Journal of Symbolic Computation	75, pp. 110-126	2016	A	2	8
3	Automatically Enforcing Security SLAs in the Cloud (https://ieeexplore.ieee.org/abstract/document/7430360/)	V. Casola, A. De Benedictis, M. Erascu, J. Modic, M. Rak	IEEE Transactions on Services Computing	10 (5), pp. 741-755	2016	AA	5	4
4	The Secant-Newton Map is Optimal among Contracting Quadratic Maps for Square Root Computation (http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.310.9510&rep=rep1&type=pdf)	M. Erascu, H. Hong	Journal of Reliable Computing	18, pp.73-81	2013	D	2	0

Total categoria A*	4
Total categoria A	8
Total categoria B	4
Total categoria C	0
Total categoria D	0
Total categoria A*+A	12
Total categoria A*+A+B	16
TOTAL criteriu reviste	16

Anexa 1

Fișa de verificare a criteriilor CNATDCU - Informatică

Numele și prenumele: Erașcu Mădălina

Funcția didactică: Conferentiar

Departamentul: Informatică

B. LUCRĂRI PUBLICATE ÎN VOLUME (PROCEEDINGS) DE CONFERINȚE									
Nr. crt.	Titlu	Autori	Conferința	Volum, nr., pg.	An	Categorie forum	Nr. autori	Volu m Work	Punctaj P
1	Architecturing Binarized Neural Networks for Traffic Sign Recognition	Andreea Postovan, Mădălina Erașcu	32nd International Conference on Artificial Neural	to appear	2023	C	2	nu	2.00
2	Transferring Learning into the Workplace: Evaluating a Student-centered Learning Approach through Computer Science Students' Lens (https://www.scitepress.org/Pa	Madalina Erascu, Velibor Mladenovici	CSEDU	2, pp. 442-449	2022	B	2	nu	4.00
3	Benchmarking Optimization Solvers and Symmetry Breakers for the Automated Deployment of Component-based Applications in the Cloud (https://easychair.org/smart-	Bogdan David and Madalina Erascu	7th International Workshop on Satisfiability	CEUR-WS, vol 3458 (https://ceur-ws.org/Vol-3458/)	2022	B	2	nu	4.00
4	Applying Optimization Modulo Theory, Mathematical Programming and Symmetry Breaking for Automatic Deployment in the Cloud of Component-based Applications	Mădălina Erașcu, Flavia Micota, Daniela Zaharie	4 th Women in Logic Workshop	pp. 6-7	2020	N/A	3	2	0.00

Afiliat cu IJCAR categorie A; volum separat

Afiliat cu FSCD (<https://fs cd-ijcar-2020.org/workshop>)



5	Constrained Optimization Benchmark for Optimization Modulo Theory: A Cloud Resource Management Problem (http://smt2019.galois.com) (https://sat2019.tecnico.ulisboa)	Madalina Erascu, Razvan Metes	SMT 2019 17TH INTERNATIONAL WORKSHOP ON	(http://smt2019.galois.com/papers/paper_5.pdf)	2019	B	2	nu	4.00	Afiliat cu SAT categoriie A; volum separat
6	Influence of Variables Encoding and Symmetry Breaking on the Performance of Optimization Modulo Theories Tools Applied to Cloud Resource Selection (http://www.eprover.org/EVENTS/IWIL-2018.html)	Madalina Erascu, Flavia Micota, Daniela Zaharie	IWIL	Publications in Computing 9, pp. 1-14 (https://www.easychair.org/publications/download/3PPV)	2018	B	3	nu	4.00	Afiliat cu LPAR categoriie A; https://dblp.org/search?q=LPA
7	An Architecture for a Management Agency for Cloud Resources (https://ieeexplore.ieee.org/abstract/document/8750721/)	Madalina Erascu, Gabriel Iulhasz, Flavia Micota	SYNASC	2018 20th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), pp. 288-295	2018	C	3	nu	2.00	
8	A tool for fake news detection (https://ieeexplore.ieee.org/abstract/document/8750741)	Bashar Al Asaad, Madalina Erascu	SYNASC	2018 20th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), pp. 379-386	2018	C	2	da	1.00	
9	Constraint satisfaction approaches in cloud resource selection for component based applications (https://ieeexplore.ieee.org/abstract/document/8516639)	Flavia Micota, Mădălina Erașcu, Daniela Zaharie	ICCP	2018 IEEE 14th International Conference on Intelligent Computer Communication and Processing (ICCP), Cluj-Napoca, 2018, pp. 443-450, doi: 10.1109/ICCP.2018.8516639.	2018	C	3	nu	2.00	

10	Benchmarking numerical libraries for flight software prequalification (https://aip.scitation.org/doi/pdf/10.1063/1.5044143)	Selea, Teodora; Vulpe, Anca; Brandibur, Oana; Erascu, Madalina; Kaslik, Eva;	ICNAAM	AIP Conference Proceedings 1978 (1), 470073	2017	D	7	nu	0.00	Co-locat cu ISSTA categorie A
11	Formal verification of data-intensive applications through model checking modulo theories (https://conf.researchr.org/home/spin-2017)	Marcello M Bersani, Francesco Marconi, Matteo Rossi, Madalina	SPIN	Proceedings of the 24th ACM SIGSOFT International SPIN Symposium on Model Checking of Software, pp. 98-101 (https://dl.acm.org/doi/abs/10.1145/3092282.3092300)	2017	D	5	nu	0.00	
12	Efficient Simplification Techniques for Special Real Quantifier Elimination with Applications to the Synthesis of Optimal Numerical Algorithms (https://link.springer.com/chapt	Mădălina Erăscu	CASC	International Workshop on Computer Algebra in Scientific Computing, pp. 193-211	2016	C	1	nu	2.00	Afiliat cu ISSTA + in volum FSE 2016 (categorie A); short
13	A tool for verification of big-data applications (http://2016.qudos-workshop.org)	MM Bersani, M Erascu, F Marconi, M Rossi	QUDOS	Proceedings of the 2nd International Workshop on Quality-Aware DevOps, pp. 44-45 (https://dl.acm.org/doi/abs/10.1145/2945408.2945419)	2016	B	4	da	1.00	
14	A Security SLA-driven Methodology to Set-Up Security Capabilities on Top of Cloud Services (https://ieeexplore.ieee.org/abstract/document/7791942/)	V. Casola, A. de Benedictis, M. Erascu, M. Rak, U. Villano	CISIS	2016 10th International Conference on Complex, Intelligent, and Software Intensive Systems (CISIS), pp. 549-554	2016	C	5	nu	0.67	

15	Towards the formal verification of data-intensive applications through metric temporal logic (https://link.springer.com/chapter/10.1007/978-3-319-47846-3_13)	F Marconi, MM. Bersani, M Erascu and M Rossi	ICFEM	International Conference on Formal Engineering Methods, pp. 193-209	2016	B	4	nu	2.00
16	A Scalable Hybrid Approach for Applications Placement in the Cloud (https://ieeexplore.ieee.org/abstract/document/7367232)	M. Erascu, F. Micota, D. Zaharie	ROLCG	In Grid, Cloud High Performance Computing in Science (ROLCG), 2015 Conference, pages 1-4	2015	D	3	nu	0.00
17	Semi-Automatic Analysis of Algorithms Complexity (Case Study: Square-Root Computation) (https://ieeexplore.ieee.org/abstract/document/6923559)	M. Erascu	SISY	In IEEE 12th International Symposium on Intelligent Systems and Informatics (SISY), pages 67-72. IEEE, 2014	2014	C	1	nu	2.00
18	Synthesis of Optimal Numerical Algorithms Using Real Quantifier Elimination (Case Study: Square Root Computation) (https://dl.acm.org/doi/abs/10.1145/2608628.2608654)	M. Erascu, H. Hoon	ISSAC	In K. Nabeshima, K. Nagasaka, F. Winkler, and A. Szanto, editors, Proceedings of the 39th International Symposium on Symbolic and Algebraic Computation (ISSAC), pages 162-169. ACM, 2014	2014	AA	2	nu	12.00

19	Soundness of a Logic-Based Veri_cation Method for Imperative Loops (https://ieeexplore.ieee.org/abstract/document/6481021)	M. Erascu, T. Jebelean	SYNASC	In A. Voronkov, V. Negru, T. Ida, T. Jebelean, D. Petcu, S. Watt, and D. Zaharie, editors, Proceedings of the 14th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), pages 127-134. IEEE Computer Society, 2012	2012	C	2	nu	2.00
20	A Purely Logical Approach to the Termination of Imperative Loops (https://ieeexplore.ieee.org/abstract/document/5715280/)	M. Erascu, T. Jebelean	SYNASC	In T. Ida, V. Negru, T. Jebelean, D. Petcu, S. M. Watt, and D. Zaharie, editors, Proceedings of the 12th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), pages 142-149. IEEE Computer Society, 2010	2010	C	2	nu	2.00
21	A Calculus for Imperative Programs: Formalization and Implementation (https://ieeexplore.ieee.org/abstract/document/5460866/)	M. Erascu, T. Jebelean	SYNASC	In S. Watt, V. Negru, T. Ida, T. Jebelean, D. Petcu, and D. Zaharie, editors, Proceedings of the 11th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), pages 77-84. IEEE Computer Society, 2009	2009	C	2	nu	2.00

Total categoria A*	12.00
Total categoria A	0.00
Total categoria B	19.00
Total categoria C	17.67

Total categoria D	0.00
Total categoria A*+A	12.00
Total categoria A*+A+B	31.00
TOTAL criteriu conferinte	48.67

Anexa 1

Fișa de verificare a criteriilor CNATDCU - Informatică

Numele și prenumele: Erașcu Mădălina

Funcția didactică: Conferentiar

Departamentul: Informatică

B1. Centralizator citări

	Număr citări	Punctaj
Total citări forumuri de categoria A*	2	24
Total citări forumuri de categoria A	5	40
Total citări forumuri de categoria B	5	20.66667
Total citări forumuri de categoria C	13	22.33333
Total citări forumuri de categoria D	50	38.66667
Total citări forumuri de categoria A* + A + B	12	84.66667
TOTAL	75	145.67

Anexa 1

Fișa de verificare a criteriilor CNATDCU - Informatică

Numele și prenumele: Erașcu Mădălina

Funcția didactică: Conferentiar

Departamentul: Informatică

B2. CITĂRI PENTRU LUCRAREA: M. Erascu, H. Hoon: Synthesis of Optimal Numerical Algorithms Using Real Quantifier Elimination (Case Study: Square Root Computation), In K. Nabeshima, K. Nagasaka, F. Winkler, and A. Szanto, editors, Proceedings of the 39th International Symposium on Symbolic and Algebraic Computation (ISSAC), pages 162-169. ACM, 2004.

Nr.crt.	Titlu	Autori	Numar autori	FORUM (Revista, Conferința)	Volum, nr., pg.	An	Categorie forum	Punctaj P
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1	SC2:Satisfiability Checking Meets Symbolic Computation (https://www.sciencedirect.com/science/article/pii/S0747717115001005)	Erika Ábrahám, John Abbott, Bernd Becker, Anna M. Bigatti, Martin Brain, Bruno Buchberger, Alessandro Cimatti, James H. Davenport, Matthew England, Pascal Fontaine, Stephen Forrest, Alberto Griggio, Daniel Kroening, Werner M. Seiler, Thomas Sturm	2	In: Kohlhase M., Johansson M., Miller B., de Moura L., Tomba F. (eds) Intelligent Computer Mathematics. CICM 2016. Lecture Notes in Computer Science, vol 9791. Springer, Cham	LNCS, volume 9791	2016	C	2
2	Truth table invariant cylindrical algebraic decomposition (http://ac.els-cdn.com/S0747717115001005/1-s2.0-S0747717115001005-main.pdf?_tid=e3760b52-b3a8-11e5-b356-00000aacb361&acdnat=1451997545_7f97297497fb773f46355e85ad54ca69)	Russell Bradford, James H. Davenport, Matthew England, Scott McCallum, David Wilson	2	Journal of Symbolic Computation	Volume 76, Septem ber-Oct ober 2016, Pages 1- 35	2016	A	8

3	Using Machine Learning to Decide When to Precondition Cylindrical Algebraic Decomposition With Groebner Bases (https://ieeexplore.ieee.org/document/7829592)	Zongyan Huang, Matthew England, James H. Davenport, Lawrence C. Paulson	2	2016 18th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC)	2016 18th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC)	2016	C	2
4	Need Polynomial Systems Be Doubly-Exponential? (https://link.springer.com/chapter/10.1007/978-3-319-42432-3_20)	James H. Davenport, Matthew England	2	n: Greuel GM., Koch T., Paule P., Sommese A. (eds) Mathematical Software – ICMS 2016. ICMS 2016. Lecture Notes in Computer Science, vol 9725	LNCS, volume 9725	2016	C	2

5	The complexity of cylindrical algebraic decomposition with respect to polynomial degree (https://link.springer.com/chapter/10.1007/978-3-319-45641-6_12)	Matthew England, James H. Davenport	2	In: Gerdt V., Koepf W., Seiler W., Vorozhtsov E. (eds) Computer Algebra in Scientific Computing. CASC 2016. Lecture Notes in Computer Science, vol 9890. Springer, Cham	LNCS, volume 9890	2016	C	2
6	Improving the Use of Equational Constraints in Cylindrical Algebraic Decomposition (http://dl.acm.org/citation.cfm?doid=2755996.2756678)	Matthew England, Russell Bradford, James H. Davenport	2	Proceeding ISSAC '15 Proceedings of the 2015 ACM on International Symposium on Symbolic and Algebraic Computation, Pages 165-172	ACM, Pages 165-172	2015	AA	12

B2. CITĂRI PENTRU LUCRAREA: M. Erascu, T. Jelebean: A Purely Logical Approach to the Termination of Imperative Loops, Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), 2010 12th International Symposium on, pp. 142-149, IEEE

Nr.crt.	Titlu	Autori	Numar	FORUM	Volum,	An	Categorie	Punctaj
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1	Optimization Techniques for Algorithmic Debugging. (https://doi.org/10.4995/Thesis/10251/68506) (https://riunet.upv.es/handle/10251/68506)	David Insa, Josep Silva	2	[Tesis doctoral no publicada] Universitat Politécnica de València	PhD Thesis	2016	D	1
2	Theorema 2.0: Computer-Assisted Natural-Style Mathematics (https://jfr.unibo.it/article/view/4568)	BRUNO BUCHBERGER, TUDOR JEBELEAN, TEMUR KUTSIA, ALEXANDER MALETZKY, WOLFGANG WINDSTEIGER	2	Journal of Formalized Reasoning	Vol 9, No 1	2016	D	1
3	Automatic transformation of iterative loops into recursive methods (http://www.sciencedirect.com/science/article/pii/S0950584914002122)	David Insa, Josep Silva	2	Information and Software Technology	Vol. 58, Pg 95–109	2015	AA	12

B2. CITĂRI PENTRU LUCRAREA: Valentina Casola ; Alessandra De Benedictis ; Massimiliano Rak ; Jolanda Modic ; Madalina Erascu Automatically Enforcing Security SLAs in the Cloud IEEE Transaction on Services 2016

Nr.crt.	Titlu	Autori	Numar	FORUM	Volum,	An	Categorie	Punctaj
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1	Towards Owner-Controlled Data Sharing (https://link.springer.com/chapter/10.1007/978-3-030-87049-2_23)	Sabrina De Capitani di Vimercati, Sara Foresti, Giovanni Livraga & Pierangela Samarati	5	In: Nicopolitidis, P., Misra, S., Yang, L.T., Zeigler, B., Ning, Z. (eds) Advances in Computing, Informatics, Networking and Cybersecurity.	Lecture Notes in Networks and Systems, vol 289. Springer, Cham. https://doi.org/10.1007/978-3-030-87049-2_23	2022	D	0.3333
2	User Centered Security Service Level Agreement Enforcement Mechanisms (https://www.proquest.com/docview/2659281005?pq-origsite=gscholar&fromopenview=true)	Alasmari, Sultan.	5	University of North Carolina at Charlotte	PhD Thesis	2022	D	0.3333
3	Incentivisation of Outsourced Network Testing: View from Platform Perspective (https://www.scitepress.org/Papers/2022/108973/108973.pdf)	Sultan Alasmari, Weichao Wang and Yu Wang	5	Proceedings of the 8th International Conference on Information Systems Security and Privacy (ICISSP 2022)	pages 499-506 ISBN: 978-989-758-5531; ISSN: 2184-4357	2022	C	0.6667

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Springer

4	SLA Definition for Network Intrusion Detection Systems in IaaS Clouds (https://hal.inria.fr/hal-03085554/)	Amir Teshome Wonjiga, Louis Rilling, Christine Morin	5	SAC 2021 - 36th ACM/SIGAPP Symposium on Applied Computing	Mar 2021, Virtual Event, Republic of Korea., South Korea. pp.1-10,	2021	B	1.3333
5	Autonomic Management of Service Level Agreements in Cloud Computing	Frey, Stefan Edwin Karl	5	University of Plymouth, Faculty of Science and Engineering	PhD Thesis	2021	D	0.3333
6	Monitoring and Prediction of SLA for IoT based Cloud (https://scpe.org/index.php/scpe/article/view/1697)	Vivek Kumar Prasad, Madhuri D Bhavsar	5	Scalable Computing: Practice and Experience	Vol 21 No 3 (2020)	2020	C	0.6667
7	Addressing Accountability in Cloud Computing: A Qualitative Study of Business Cloud Consumers (http://search.proquest.com/openview/f2eeca656458822bc1cb682c34a287c6/1?pq-origsite=gscholar&cbl=18750&diss=y)	Ghosh, Supriya	5	Wilmington University (Delaware)	PhD Thesis	2020	D	0.3333

Scopus

8	Proof of Network Security Services: Enforcement of Security SLA through Outsourced Network Testing (https://dl.acm.org/doi/abs/10.1145/3442520.3442533)	Sultan Alasmari, Weichao Wang, Yu Wang	5	ICCNS 2020: 2020 the 10th International Conference on Communication and Network Security November	pp. 52–59 https://doi.org/10.1145/3442520.3442533	2020	D	0.3333	ACM
9	An Integrated Framework for the Methodological Assurance of Security and Privacy in the Development and Operation of MultiCloud Applications (https://addi.ehu.es/handle/10810/50231)	Ríos Velasco, Erkuden	5	Electronics and Telecommunications Engineering Doctorate at the UNIVERSITY OF THE BASQUE COUNTRY	PhD Thesis	2020	D	0.3333	
10	Cloud-based fleet management for prefabrication transportation (https://www.tandfonline.com/doi/abs/10.1080/17517575.2018.1455109)	Gangyan Xu, Ming Li, Lizi Luo, Chun-Hsien Chen & George Q. Huang	5	Enterprise Information Systems	13:1, 87-106	2019	D	0.3333	

11	Data security and privacy in the cloud (https://www.spiedigitallibrary.org/conference-proceedings-of-spie/10993/109930D/Data-security-and-privacy-in-the-cloud/10.1117/12.2523603.full?webSyncID=68bead49-a285-31ab-0d3a-6b03c97c009b&sessionGUID=6bcd746b-80d8-e8ab-eeae-d6ae05c117aa)	Sabrina De Capitani di Vimercati, Sara Foresti, Giovanni Livraga, Pierangela Samarati	5	Proceedings Volume 10993, Mobile Multimedia/Image Processing, Security, and Applications 2019; 109930D		2019	D	0.3333
12	An Overview of Cloud and Edge Computing Architecture and Its Current Issues and Challenges (https://www.igi-global.com/chapter/an-overview-of-cloud-and-edge-computing-architecture-and-its-current-issues-and-challenges/217571)	Guru Prasad Bhandari and Ratneshwer Gupta	5	Advancing Consumer-Centric Fog Computing Architectures	37	2019	D	0.3333
13	Cloud Security Service Level Agreements: Representation and Measurement (https://ieeexplore.ieee.org/abstract/document/8845105/?casa_token=byLuyh88_XgAAAAA:MFisQCaHaBLfXJj3NBowlPBCZ8HgGCd8oxZtZ1g8JaQEaXzdhKYfdBWRhy4SNmZzntDoFg3t-J)	N. Hubballi, A. K. Patel, A. K. Meena and N. Tripathi	5	IEEE INFOCOM 2019 - IEEE Conference on Computer Communications Workshops (INFOCOM WKSHPS), Paris, France, 2019, pp. 145-150		2019	D	0.3333

14	User-centric security monitoring in cloud environments (https://tel.archives-ouvertes.fr/tel-02570591/file/WONJIGA_Amir.pdf)	Amir Teshome Wonjiga	5	Université Rennes 1	PhD Thesis	2019	D	0.3333
15	Modeling time, probability, and configuration constraints for continuous cloud service certification (https://www.sciencedirect.com/science/article/pii/S0167404817302018?casa_token=3s6nv0NIhQkAAAAA:UtC0ToGoVl-4C2RHn48nectqcpjxjyK86tO6sgJ2U5MEFrNz1inbiFgVeFc2sOVK49poSe8Tjg)	M.Anisetti, C.A.Ardagna, E.Damiani, N.El Ioini, F.Gaudenzi	5	Computers & Security	Volume 72, January 2018, Pages 234-254	2018	B	1.3333
16	Security-aware SaaS placement using swarm intelligence (https://onlinelibrary.wiley.com/doi/abs/10.1002/smr.1932?casa_token=_Ur9loaO3aAAAAA:G8vNvYOjjlpLOBo3wVNwrKsOq7XVs3aieqqqsEhxaRBjSc8mkp7H4z6zz3sp7sidB_fv8s4jHlLeI9Q)	Haithem Mezni Mokhtar Sellami Jaber Kouki	5	Journal of Software: Evolution and Process	Volume 30, Issue 8 August 2018	2018	C	0.6667
17	Verification for security monitoring SLAs in IaaS clouds: The example of a network IDS (https://ieeexplore.ieee.org/abstract/document/8406157?casa_token=dEEozLn1epoAAAAA:wS5YydgGpVHWhw_p3SFmOlCenJL75Cs0lvO3T1R2LtA5GWU1SM5eCmmIW5iDQ_vqIbumGF1u75c2)	A. Teshome, L. Rilling and C. Morin	5	NOMS 2018 - 2018 IEEE/IFIP Network Operations and Management Symposium, Taipei, 2018, pp. 1-7		2018	D	0.3333
18	Fault analysis of service-oriented systems: a systematic literature review (https://digital-library.theiet.org/content/journals/10.1049/iet-sen.2018.5249)	Guru Prasad Bhandari and Ratneshwer Gupta	5	IET Software	Volume 12, Issue 6	2018	C	0.6667

19	Data Analysis of Cloud Security Alliance's Security, Trust & Assurance Registry (https://dl.acm.org/doi/abs/10.1145/3154273.3154343)	Amartya Sen, Sanjay Kumar Madria	5	ICDCN '18: Proceedings of the 19th International Conference on Distributed Computing and Networking January 2018 Article No.: 42 Pages 1–10	January 2018 Article No.: 42 Pages 1–10	2018	D	0.3333
20	Supporting Users in Cloud Plan Selection (https://link.springer.com/chapter/10.1007/978-3-030-04834-1_13)	Sabrina De Capitani di Vimercati, Sara Foresti, Giovanni Livraga, Vincenzo Piuri, Pierangela Samarati	5	In: Samarati P., Ray I., Ray I. (eds) From Database to Cyber Security.	Lecture Notes in Computer Science, vol 11170. Springer, Cham	2018	C	0.6667

B2. CITĂRI PENTRU LUCRAREA: **Madalina Erascu, Hoon Hong, Real quantifier elimination for the synthesis of optimal numerical algorithms (Case study: Square root computation), JOURNAL OF SYMBOLIC**

Nr.crt.	Titlu	Autori	Numar	FORUM	Volum,	An	Categorie	Punctaj
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1	The DEWCAD project: pushing back the doubly exponential wall of cylindrical algebraic decomposition (https://dl.acm.org/doi/abs/10.1145/3511528.3511538)	Bradford, R. and Davenport, J. H. and England, M. and Sadeghimanesh, A. and Uncu, A.	2	ACM Communications in Computer Algebra	Volume 55 Issue 3 September 2021 pp 107–111 https://doi.org/10.1145/3511528.3511538	2021	D	1	ACM
2	Cylindrical algebraic decomposition with equational constraints (https://www.sciencedirect.com/science/article/pii/S0747717119300859?casa_token=p_MRJ8eb19sAAAAA:n8F4Gpb_yEZpXeTRu8jKfvFmsDKw3qG-AzOgB2oBdee_JUuLgBsOO-tAyjyg0fE5GYqCp9y9_Q)	Matthew England, Russell Bradford, James H. Davenport	2	ACM Transactions on Computational Logic, April 2020	Article No.: 26	2020	A	8	
3	Using Machine Learning to Improve Cylindrical Algebraic Decomposition (https://link.springer.com/article/10.1007/s11786-019-00394-8)	Zongyan Huang, Matthew England, David J. Wilson, James Bridge, James H. Davenport & Lawrence C. Paulson	2	Math. Comput. Sci.	13, 461–488	2019	D	1	

4	Comparing Machine Learning Models to Choose the Variable Ordering for Cylindrical Algebraic Decomposition (https://link.springer.com/chapter/10.1007/978-3-030-23250-4_7)	Matthew England, Dorian Florescu	2	In: Kaliszyk C., Brady E., Kohlhase A., Sacerdoti Coen C. (eds) Intelligent Computer Mathematics.	CICM 2019. Lecture Notes in Computer Science, vol 11617. Springer, Cham	2019	C	2
5	Non-linear Real Arithmetic Benchmarks derived from Automated Reasoning in Economics (https://www.nber.org/papers/w24602)	Casey B. Mulligan, Russell Bradford, James H. Davenport, Matthew England, Zak Tonks	2	NBER Issued in May 2018 NBER Program(s): Technical Working Papers	Working Paper No. 24602	2018	D	1
6	TheoryGuru: A Mathematica Package to Apply Quantifier Elimination Technology to Economics. (https://link.springer.com/chapter/10.1007/978-3-319-96418-8_44)	Mulligan C.B., Davenport J.H., England M.	2	In: Davenport J., Kauers M., Labahn G., Urban J. (eds) Mathematical Software – ICMS 2018	Lecture Notes in Computer Science, vol 10931. Springer, Cham	2018	C	2

B2. CITĂRI PENTRU LUCRAREA: Flavia Micota, Mădălina Eraşcu, Daniela Zaharie, Constraint satisfaction approaches in Cloud resource selection for component based applications, 2018 IEEE 14th International Conference on Intelligent Computer Communication and Processing (ICCP), pp. 443-450

Nr.crt.	Titlu	Autori	Numar	FORUM	Volum,	An	Categorie	Punctaj
1	Optimal answer generation by equivalent transformation incorporating multi-objective genetic algorithm (https://doi.org/10.1007/s00500-022-06923-1)	Katsunori Miura, Courtney Powell & Masaharu Munetomo	3	Soft Computing	volume 26, pages 10535–10546	2022	D	1
2	Effective Resource Aware Health Care Monitoring in Body Sensor Network Platform Using Modified Particle Swarm Optimization	Sureshu, S.; Vijayabhasker, R.	3	Journal of Medical Imaging and Health Informatics	Volume 11, Number 12, December 2021, pp. 3054-3061	2021	D	1
3	SECURE : Efficient resource scheduling by swarm in cloud computing (https://www.tandfonline.com/doi/abs/10.1080/09720529.2019.1576334)	Harvinder Singh, Anshu Bhasin & Parag Kaveri	3	Journal of Discrete Mathematical Sciences and Cryptography,	Volume 22, 2019 - Issue 2	2019	C	2

4	Efficient resource management techniques in cloud computing environment (https://d1wqtxts1xzle7.cloudfront.net/61767462/IJRR-05-01-10920200113-111835-17j5hlw.pdf?1578921250=&response-content-disposition=inline%3B+filename%3DEfficient_resource_management_techniques.pdf&Expires=1593957294&Signature=BF~Z31ybJd9wLjk54lsW0z2tQZwS6OpMMxttaXNDxDvDhjhPwtXQW1Xgws4FZYCA2iqIKdE-Mx2p5nJquTHPhGtoRwuSdj46KDY~kY9pvQg8Nkx~j6ullQusrprlEOcCwIgu3Jd00MVWZFwdkx9wQlqcFcPPxZWov-F8rtTIYkxp3uHnxKWYF2y8QBEndm30EdKdGVp5fFDjN0ABwCn1ZzjVRRthOBBYvXVfQF~5XOSdaQyeMUBkK9MYMnqqUZJpBA3N-GGH9oimzTyDyz2EaXKrtmnv2aSNZyx5TSsumCqEv97uJFlvXwweOCfh-LYbuDvavWGczEO13Vt9xJNw__&Key-Pair-Id=APKAJLOHF5GGSLRBV4ZA)	Alka Kaushik	3	International Journal of Recent Research Aspects	2349-7688, Vol. 5, Issue 1, March 2018, pp. 474-478	2018	D	1
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B2. CITĂRI PENTRU LUCRAREA: Marcello M Bersani, Francesco Marconi, Matteo Rossi, Madalina Erascu, A tool for verification of big-data applications, Proceedings of the 2nd International Workshop on Quality-Aware

Nr.crt.	Titlu	Autori	Numar	FORUM	Volum,	An	Categorie	Punctaj
1	Decision Support for the Technology Selection in Big Data Projects: An End-to-End Approach	Matthias Volk	4	Fakultaet fuer Informatik der Otto-von-Guericke-Universitaet Magdeburg	PhD Thesis	2022	D	0.5
2	Big Data Systems: A Software Engineering	Ali Davoudian,	4	ACM	110	2020	A	4

3	A Scalable Platform for Monitoring Data Intensive Applications (https://link.springer.com/article/10.1007/s10723-019-09483-1)	Drăgan, I., Iuhasz, G. & Petcu	4	J Grid Computing 17	503–528	2019	A	4
4	State of Requirements Engineering Research in the Context of Big Data Applications (https://link.springer.com/chapter/10.1007/978-3-319-77243-1_20)	Darlan Arruda, Nazim H. Madhavji	4	In: Kamsties E., Horkoff J., Dalpiaz F. (eds) Requirements Engineering: Foundation for Software Quality	Lecture Notes in Computer Science, vol 10753	2018	C	1
5	A Systematic Mapping of Software Engineering Approaches to Develop Big Data Systems (https://ieeexplore.ieee.org/abstract/document/8498246/?casa_token=hq9c1HpBOSMAAAAA:ZbFTBLi1s9ShFx22MuOerftg3T9ngsnJgdVins5gO8WLY8AhrynVcTnuY94uxrEmtXEG173RQ8C)	Rodrigo Laigner, Marcos Kalinowski, Sérgio Lifschitz, Rodrigo Salvador Monteiro, Daniel de Oliveira	4	2018 44th Euromicro Conference on Software Engineering and Advanced Applications (SEAA), Prague,	pp. 446-453	2018	B	2
6	Requirements Engineering in the Context of Big Data Applications (https://dl.acm.org/doi/abs/10.1145/3178315.3178323)	Darlan Arruda	4	ACM SIGSOFT Software Engineering Notes 43, no.1		2018	D	0.5

7	Dynamic Models for the Formal Verification of Big Data Applications Via Stochastic Model Checking (https://ieeexplore.ieee.org/abstract/document/8511410/?casa_token=KFMx-hJ2cBQAAAAA:nh3iq3XrdQ4fKyijbdgKswLVIYMW1hR7V62zXOaamZ0enCZwc99GtW0NJdoZ03hckjhQsu8eG2Cv)	C. Mandrioli, A. Leva and M. Maggio	4	2018 IEEE Conference on Control Technology and Applications (CCTA), Copenhagen	pp. 1466-1471	2018	D	0.5
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B2. CITĂRI PENTRU LUCRAREA: M Eraşcu, F Micota, D Zaharie, A scalable hybrid approach for applications placement in the Cloud, RoLCG 2015

Nr.crt.	Titlu	Autori	Numar	FORUM	Volum,	An	Categorie	Punctaj
1	A review on energy aware VM placement and consolidation techniques (http://ieeexplore.ieee.org/abstract/document/7830219/)	Sukhandeep Kaur, Seema Bawa	3	2016 International Conference on Inventive Computation Technologies (ICICT)		2016	D	1

B2. CITĂRI PENTRU LUCRAREA: A tool for fake news detection, Bashar Al Asaad, Madalina Erascu, 2018 20th

Nr.crt.	Titlu	Autori	Numar	FORUM	Volum,	An	Categorie	Punctaj
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1	Deploying Fact-Checking Tools to Alleviate Misinformation Promulgation in Twitter Using Machine Learning Techniques (https://link.springer.com/chapter/10.1007/978-981-19-9379-4_25)	Monikka Reshmi Sethurajan, K. Natarajan	2	In: Kumar, S., Sharma, H., Balachandran, K., Kim, J.H., Bansal, J.C. (eds) Third Congress on Intelligent Systems. CIS 2022.	Lecture Notes in Networks and Systems, vol 613. Springer, Singapore. https://doi.org/10.1007/978-981-19-9379-4_25	2022	D	1 Springer
2	Content-Based Fake News Detection With Machine and Deep Learning: a Systematic Review (https://www.sciencedirect.com/science/article/abs/pii/S0925231223001376?casa_token=IP7hCxxN4xkAAAAA:puwLrdjf6tv9mKPYSiA3gY2OE4ZpVEdCr8BZPBUI TG3ORrd5YaVXFGwLcfJv9ANa57N8vSY0APQ)	Nicola Capuano, Giuseppe Fenza, Vincenzo Loia, Francesco David Nota	2	Neurocomputing	Volume 530, 14 April 2023, Pages 91-103	2023	A	8

3	An Efficient and Accurate Detection of Fake News using Capsule Transient Auto Encoder (https://dl.acm.org/doi/abs/10.1145/3589184)	Smita Athanere Parte, Ankur Ratmele, Ritesh Dhanare	2	ACM Transactions on Asian and Low-Resource Language Information Processing	apr	2023	D	1	ACM proceedings
4	Fake news detection: a systematic literature review of machine learning algorithms and datasets (https://sol.sbc.org.br/journals/index.php/jis/article/view/3020)	VILLELA, H. F.; CORRÊA, F.; RIBEIRO, J. S. de A. N.; RABELO, A.; CARVALHO, D. B. F.	2	Journal on Interactive Systems	Porto Alegre, RS, v. 14, n. 1, p. 47-58, 2023. DOI: 10.5753/jis.2023.3020	2023	D	1	
5	Machine Learning Based Approach to Disinformation Detection Using Twitter Data (https://ieeexplore.ieee.org/abstract/document/10080790/authors#authors)	Sanjeev Yadav, Crs Kumar	2	2023 International Conference for Advancement in Technology (ICONAT)	pp. 1-5, doi: 10.1109/ICONAT57137.2023.10080790	2023	D	1	IEEE

6	An intelligent cybersecurity system for detecting fake news in social media websites (https://link.springer.com/article/10.1007/s00500-022-07080-1)	Ala Mughaid, Shadi Al-Zu'bi, Ahmed AL Arjan, Rula AL-Amrat, Rathaa Alajmi, Raed Abu Zitar, Laith Abualigah	2	Soft Computing	vol. 26, 5577-5591	2022	D	1	
7	Online Fake News Detection Using Machine Learning Techniques: A Systematic Mapping Study (https://link.springer.com/chapter/10.1007/978-3-030-90087-8_1)	Mohamed Lahby, Said Aqil, Wael M. S. Yafooz, Youness Abakarim	4	Combating Fake News with Computational Intelligence Techniques	Volume 1001, ISBN : 978-3-030-90086-2	2022	D	0.5	Springer
8	Social Media vs. News Platforms: A Cross-analysis for Fake News Detection Using Web Scraping and NLP (https://doi.org/10.1145/3529190.3534755)	Fahad Alsuliman, Siddhartha Bhattacharyya, Khaled Slhoub, Nasheen Nur, Candice Normalee Chambers	2	PETRA '22: Proceedings of the 15th International Conference on Pervasive Technologies Related to Assistive Environments	Pages 190-196	2022	D	1	ACM proceedings
9	Deep Learning with Self-Attention Mechanism for Fake News Detection (https://link.springer.com/chapter/10.1007/978-3-030-90087-8_10)	Ivana Cvitanović, Marina Bagić Babac	2	Combating Fake News with Computational Intelligence	pp 205-229	2022	D	1	

10	A Novel Three-Level Voting Model for Detecting Misleading Information on COVID-19 (https://link.springer.com/chapter/10.1007/978-981-16-4435-1_36)	Shovan Bhowmik, Priyo Ranjan Kundu Prosun & Kazi Saeed Alam	2	In: Mandal, J.K., De, D. (eds) Advanced Techniques for IoT Applications. EAIT 2021.	Lecture Notes in Networks and Systems, vol 292. Springer, Singapore.	2021	D	1	Springer
11	Compare The Performance of Machine Learning Classifiers for Misinformation Detection (https://ieeexplore.ieee.org/abstract/document/10072306/authors#authors)	Kanika Jindal, Vedansh Bhardwaj, Sonu Ray, Umar Parvez, Vishal Raj	2	2022 5th International Conference on Contemporary Computing and Informatics (IC3I), Uttar Pradesh, India, 2022, pp. 1284-1289, doi: 10.1109/IC3I56241.2022.10072306.	pp. 1284-1289	2022	D	1	IEEE

12	Detecting Fake News in Benchmark English News Dataset Using Machine Learning Classifiers (https://ieeexplore.ieee.org/abstract/document/9984461)	Afrin Jaman Bonny, Puja Bhowmik, Md. Shihab Mahmud, Abdus Sattar	2	2022 13th International Conference on Computing Communication and Networking Technologies (ICCCNT)	pp. 1-8	2022	D	1	IEEE
13	Tracking Misleading News of COVID-19 Within Social Media (https://link.springer.com/chapter/10.1007/978-981-16-7088-6_8#citeas)	Mahboob Massoudi, Rahul Katarya	2	In: Reddy, V.S., Prasad, V.K., Wang, J., Reddy, K. (eds) Soft Computing and Signal Processing. ICSCSP 2021. Advances in Intelligent Systems and Computing	vol 1413. Springer, Singapore. https://doi.org/10.1007/978-981-16-7088-6_9	2021	D	1	Springer

14	Towards Detecting Fake Medical Content on the Web with Machine Learning (https://link.springer.com/chapter/10.1007/978-3-030-93564-1_29#citeas)	Radu Razvan Slavescu, Florina-Ionela Pop & Kinga Cristina Slavescu	2	In: Vlad, S., Roman, N.M. (eds) 7th International Conference on Advancements of Medicine and Health Care through Technology. MEDITECH 2020. IFMBE Proceedings	vol 88. Springer, Cham. https://doi.org/10.1007/978-3-030-93564-1_30	2022	D	1 Springer
15	A Comprehensive Review on Fake News Detection With Deep Learning (https://ieeexplore.ieee.org/abstract/document/9620068/authors#authors)	M. F. MRIDHA, ASHFIA JANNAT KEYA, MD. ABDUL HAMID, MUHAMMAD MOSTAFA MONOWAR, MD. SAIFUR RAHMAN	2	IEEE Access, vol. 9	pp. 156151 - 156170	2021	B	4
16	Detection of Fake News on COVID-19 on Web Search Engines (https://www.frontiersin.org/articles/10.3389/fphy.2021.685730/full)	Valeria Mazzeo, Andrea Rapisarda, Giovanni Giuffrida	2	Front. Phys., 30 June 2021, Sec. Social Physics	Volume 9, https://doi.org/10.3389/fphy.2021.685731	2021	D	1

17	Fake News Detection on Reddit Utilising CountVectorizer and Term Frequency-Inverse Document Frequency with Logistic Regression, MultinomialNB and Support Vector Machine (https://ieeexplore.ieee.org/abstract/document/9467842?casa_token=vGF8nPOABN8AAAAA:hG-wyAU5pcDE8Vn9lvzsY69nXM4S5ltA63JMw_S9I)	A. Patel and K. Meehan	2	2021 32nd Irish Signals and Systems Conference (ISSC), Athlone, Ireland, 2021	pp. 1-6, doi: 10.1109/ISSC52.2021.9467842.	2021	D	1	IEEE
18	Classification of Actual and Fake News in Pandemic (https://link.springer.com/chapter/10.1007/978-3-030-73696-5_10)	Manish Kumar Sharma, Prince Kumar, Akhtar Rasool, Aditya Dubey, Vishal Kumar Mahto	2	2021 Fifth International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC), Palladam, India, 2021	pp. 1168-1174, doi: 10.1109/I-SMAC52330.2021.9640639.	2021	D	1	IEEE

19	Tackling the Infodemic: Analysis Using Transformer Based Models (https://link.springer.com/chapter/10.1007/978-3-030-73696-5_10)	Anand Zutshi, Aman Raj	2	In: Chakraborty, T., Shu, K., Bernard, H.R., Liu, H., Akhtar, M.S. (eds) Combating Online Hostile Posts in Regional Languages during Emergency Situation. CONSTRAINT 2021. Communicatio ns in Computer and Information Science	vol 1402. Springer , Cham. https://doi.org/10.1007/978-3-030-73696-5_11	2021	D	1 Springer
20	Combating Misinformation Dissemination through Verification and Content Driven Recommendation (2021 International Seminar on Application for Technology of Information and Communication (iSemantic), Semarangin, Indonesia, 2021, pp. 37-41, doi: 10.1109/iSemantic52711.2021.9573213.)	S. Hawa, L. Lobo, U. Dogra and V. Kamble	2	2021 Third International Conference on Intelligent Communicatio n Technologies and Virtual Mobile Networks (ICICV), Tirunelveli, India, 2021	pp. 917- 924, doi: 10.1109 /ICICV5 0876.20 21.9388 406.	2021	D	1 IEEE

21	Using Extra Weight in Machine Learning Algorithms for Clickbait Detection of Indonesia Online News Headlines (https://ieeexplore.ieee.org/abstract/document/9573213)	P. Santoso Hadi, Muljono, A. Z. Fanani, G. F. Shidik, Purwanto and F. Alzami	2	2021 International Seminar on Application for Technology of Information and Communication (iSemantic), Semarang, Indonesia, 2021	pp. 37-41, doi: 10.1109/iSemantic5271.1.2021.9573213.	2021	D	1	IEEE
22	A Dynamic Approach for Detecting the Fake News Using Random Forest Classifier and NLP (https://link.springer.com/chapter/10.1007/978-981-15-7907-3_25)	J. Antony Vijay, H. Anwar Basha & J. Arun Nehru	2	Computational Methods and Data Engineering	pp 331-341	2020	D	1	Springer
23	Detecting Misleading Information on COVID-19 (https://ieeexplore.ieee.org/abstract/document/9189767/authors#authors)	Mohamed K. Elhadad; Kin Fun Li; Fayez Gebali	2	IEEE Access	vol. 8, pp.165201 - 165215	2020	B	4	
24	A Deep Model on Hoax Detection Using Feed Forward Neural Network and LSTM (https://www.researchgate.net/profile/Kir_An2/publication/347825530_A_Deep_Model_on_Hoax_Detection_Using_Feed_Forward_Neural_Network_and_LSTM/links/5ff6cb3f92851c13fef3cc09/A-Deep-Model-on-Hoax-Detection-Using-Feed-Forward-Neural-Network-and-LSTM.pdf)	GVD Kumar, MV Jadhav, A Tadiseti - Webology	2	Webology	Volume 17, Number 2	2020	D	1	

25	Intelligent based Framework for Detection of Fake News in the Social Network Platforms (https://books.google.ro/books?hl=de&lr=&id=ZKDYDwAAQBAJ&oi=fnd&pg=PA144&ots=RtLwI1NpKj&sig=0IKG5_f38HJiKX_R7P0gZK_-BAw&redir_esc=y#v=onepage&q&f=false)	O Fasola, J Ojeniyi, S Oyeniyi	2	ICCWS 2020 15th International Conference on Cyber Warfare and Security		2020	D	1
26	A Novel Approach for Selecting Hybrid Features from Online News Textual Metadata for Fake News Detection (https://link.springer.com/chapter/10.1007/978-3-030-33509-0_86)	Mohamed K. Elhadad, Kin Fun Li, Faye Gebali	2	3PGCIC 2019: Advances on P2P, Parallel, Grid, Cloud and Internet Computing	LNNS, volume 96	2019	D	1

B2. CITĂRI PENTRU LUCRAREA: **Formal verification of data-intensive applications through model checking modulo theories, Marcello M Bersani, Francesco Marconi, Matteo Rossi, Madalina Erascu, Silvio Ghilardi, Proceedings of the 24th ACM SIGSOFT International SPIN Symposium on Model Checking of Software, pp. 98-101**

Nr.crt.	Titlu	Autori	Numar	FORUM	Volum,	An	Categorii	Punctaj
1	SMT-based Safety Verification of Data-Aware Processes: Foundations and Applications (https://bia.unibz.it/esploro/outputs/doctoral/SMT-based-Safety-Verification-of-Data-Aware-Processes/991006303297001241?institution=39UBZ_INST)	Alessandro Gianola	5	Free University of Bozen-Bolzano	PhD Thesis	2022	D	0.3333
2	Formal verification of ontology transformation for distribution network information model based on meta-model theory (https://ietresearch.onlinelibrary.wiley.com/doi/full/10.1049/iet-cps.2020.0018)	Boya Qin, Dong Liu, Yiming Lu	5	IET Cyber-Physical Systems: Theory and Applications	vol. 8, pp.165201 - 165215	2020	D	0.3333

B2. CITĂRI PENTRU LUCRAREA: Scalable optimal deployment in the cloud of component-based applications using optimization modulo theory, mathematical programming and symmetry breaking; Mădălina Erașcu, Flavia Micota, Daniela Zaharie; Journal of Logical and Algebraic Methods in Programming, Volume 121, June 2021, 100664

Nr.crt.	Titlu	Autori	Numar	FORUM	Volum,	An	Categorie	Punctaj
1	Extraction of solitons from nonlinear refractive index cubic-quartic model via a couple of integration norms (https://link.springer.com/article/10.1007/s11082-022-03956-6)	Amna Batool, Nauman Raza, J. F. Gómez-Aguilar & V. H. Olivares-Peregrino	3	Optical and Quantum Electronics	volume 54, Article number : 549	2022	C	2
2	Credibility Evaluation of Web Big Data Information Based on Particle Swarm Optimization (https://journals.riverpublishers.com/index.php/JWE/article/view/11411)	Nannan Zhao	3	Journal of Web Engineering	Vol 21 Iss 2	2022	C	2
3	Hybrid HP-BOA: An Optimized Framework for Reliable Storage of Cloud Data Using Hybrid Meta-Heuristic Algorithm (https://www.mdpi.com/2076-3417/13/9/5346)	Adnan Tahir, Fei Chen, Bashir Hayat, Qaisar Shaheen, Zhong Ming, Arshad Ahmad, Ki-Il Kim and Byung Hyun Lim	3	Appl. Sci. 2023, 13(9), 5346; https://doi.org/10.3390/app13095346		2023	B	4

B2. CITĂRI PENTRU LUCRAREA: A security sla-driven methodology to set-up security capabilities on top of

Nr.crt.	Titlu	Autori	Numar	FORUM	Volum,	An	Categorie	Punctaj
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1	Service Realizability Check as a Technique to Support a Service Security Assurance Case (https://doi.org/10.1109/ICIT45562.2020.9067250)	Predrag Filipovikj, Aida Čaušević, Elena Lisova	5	2020 IEEE International Conference on Industrial Technology (ICIT)	2020 IEEE International Conference on Industrial Technology (ICIT), 2020, pp. 973-980	2020	D	0.3333	IEEE proceedings
2	INCORPORATING SECURITY IN SERVICE LEVEL AGREEMENTS	Syed Usman Asghar	5	MÄLARDALEN UNIVERSITY, SCHOOL OF INNOVATION, DESIGN AND ENGINEERING VÄSTERÅS, SWEDEN	PhD Thesis	2020	D	0.3333	

B2. CITĂRI PENTRU LUCRAREA: Architecturing Binarized Neural Networks for Traffic Sign Recognition, Andreea Postovan, Mădălina Erașcu 32nd International Conference on Artificial Neural Networks (ICANN

Nr.crt.	Titlu	Autori	Numar	FORUM	Volum,	An	Categorie	Punctaj
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1	Deploying deep learning networks based advanced techniques for image processing on FPGA platform (https://link.springer.com/article/10.1007/s00521-023-08718-3)	Refka Ghodhbani, Taoufik Saidani & Hamed Zayeni	2	Neural Comput & Applic (2023). https://doi.org/10.1007/s00521-023-08718-3		2023	A	8
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B2. CITĂRI PENTRU LUCRAREA: Transferring Learning into the Workplace: Evaluating a Student-centered Learning Approach through Computer Science Students' Lens
(<https://www.scitepress.org/Papers/2022/109993/109993.pdf>) Madalina Erascu, Velibor

Nr.crt.	Titlu	Autori	Numar	FORUM	Volum,	An	Categorie	Punctaj
1	Student Teacher Interaction While Learning	Manuela-	2	Proceedings of	Volume	2023	B	4

Total categoria A*	24
Total categoria A	40
Total categoria B	20.667
Total categoria C	22.333
Total categoria D	38.667
Total categoria A*+A+B	84.667
TOTAL	145.67

Anexa 1

Fișa de verificare a criteriilor CNATDCU - Informatică

Numele și prenumele: Erașcu Mădălina

Funcția didactică: Conferentiar

C. Perspectiva D

Nr.crt.	Indicator	Punctaj
1	PUBLICAREA UNUI CURS UNIVERSITAR	4
2	Granturi	31
3	Membru comitet științific	24.5
4	Organizare evenimente	2
5	Consolidarea de echipe	3.3
6	Dezvoltarea de pachete si instrumente software	8
7	Profesor/cercetător asociat/visiting	48
8	Premii	11
9	Keynote/invited speaker/professor la evenimente/universitati	4
TOTAL		135.80

Anexa 1

Fișa de verificare a criteriilor CNATDCU - Informatică

Numele și prenumele: Erașcu Mădălina

Funcția didactică: Conferentiar

Departamentul: Informatică

C1. Justificări pentru indicatorul PUBLICAREA UNUI CURS UNIVERSITAR în

Nr.crt.	Explicație / Referințe	Categorie	Punctaj
1	Entrepreneurship Skills (pe Classroom)	slideuri	1
1	Inginerie Software (pe Google Classroom)	slideuri	1
2	Formal Methods in Software Development (pe Google	slideuri	1
3	Formal Languages and Automata Theory (pe Google	slideuri	1
	TOTAL		4

C1. Justificări pentru indicatorul GRANTURI (perspectiva D)

Nr.crt.	Explicație / Referințe	Categorie	Punctaj
1	SAGE: A Symbiosis of Satisfiability Checking, Graph Neural Networks and Symbolic Computation (UEFISCDI; 93733	director; 50000-99999 EUR	4
2	MANeUveR: Management Agency for Cloud Resources (UEFISCDI; 102000 EUR)	director; 100000-199999 EUR	6
3	DOC-ffORTE-fellowship of the Austrian Academy of Sciences for carrying out research at Research Institute for Symbolic Computation, June 2011 { November 2012. Competitive fellowship: 25 selections out of approx. 90 applications (45 000 EUR)	director; <50000EUR	2
4	FP7 HOST: High Performance Computing Service Center, 2012-2014, European Commission FP7-REGPOT (2 mil. euro), http://host.hpc.uvt.ro	membru; >=500000 EUR	5
5	SPECS: Secure Provisioning of Cloud Services based on SLA Management (http://www.specs-project.eu/); 220800EUR	membru; 200000-499999 EUR	4
6	DICE: Developing Data-Intensive Applications with Iterative Quality Enhancements (http://www.dice-h2020.eu/); 295375 EUR	membru; 200000-499999 EUR	4
7	Mathlib4Space - PreQualification of a Mathematical Library for Flight Software: 90000 EUR	membru; 50000-99999 EUR	2

8	SC-square - Satisfiability Checking and Symbolic Computation (H2020, Overall budget: 499 603,75 EUR)	membru; 200000-499999 EUR	4
9	COST Action ``CA20111 - European Research Network on Formal Proofs (H2020, Overall budget: ~130000 EUR)	voluntariat: 2022 - 2023 responsabil pachet 3 (Program Verification)	0
TOTAL			31

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ca. 2.
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C1. Justificări pentru indicatorul MEMBRU COMITET STIINTIFIC (perspectiva

Nr.crt.	Explicație / Referințe	Categorie	Punctaj
1	TACAS — International Conference on Tools and Algorithms for the Construction and Analysis of Systems,	A	4
2	The 32nd International Conference on Artificial Neural Networks - ICANN 2023 (https://e-nns.org/icann2023/)	C	1
3	Working Formal Method Symposium (FROM 2022)	D	0.5
4	International SPIN Symposium on Model Checking of Software (SPIN 2022) (https://spin2022chi.web.illinois.edu/committees/)	D	0.5
5	SC-square workshop (7th International Workshop on Satisfiability Checking and Symbolic Computation, August 12, 2022, Haifa, Israel, Part of IJCAR 22, at FLOC 2022)	B	2

LNCS
proceedin
gs
Affiliated
with
IJCAR
2022,
FLOC
2022
which is A
in
CORE2021

6	Workshop on Microservices: Science and Engineering (MSE) (http://www.mse-tools19.polimi.it)	C	1	afiliat cu Technolog y of Object- Oriented Languages and Systems (TOOLS), 2019, categoric B
7	SYNASC 2015-2020 (http://synasc.ro/)	C	6	
8	SYNASC 2021-2023 (http://synasc.ro/)	D	1.5	Indexat Scopus, ISI Web of Science
9	The Sixth International Conference on Mining Intelligence and Knowledge Exploration (MIKE 2018)	C	1	LNCS proceedin gs
10	Workshop on Microservices: Science and Engineering (MSE), affiliated with Software Technologies: Applications and Foundations (STAF), 2018 https://mse-staf18.fbk.eu)	C	1	LNCS proceedin gs
11	Workshop on Microservices: Science and Engineering (MSE), affiliated with 15th International Conference on Software Engineering and Formal Methods (SEFM), 2017 (http://mse-sefm17.fbk.eu)	B	2	Afiliat cu SEFM categoric B
12	CICM 2022,2023 (http://cicm-conference.org/cicm.php)	C	2	CORE 2021 cat. C
13	CICM 2015, 2017, 2018 (http://cicm-conference.org/cicm.php)	D	1.5	LNCS proceedin gs
14	PAS 2015 (http://pas2015.cc4cm.org/)	D	0.5	
TOTAL			24.5	

C1. Justificări pentru indicatorul **ORGANIZARE EVENIMENTE** (perspectiva D)

Nr.crt.	Explicație / Referințe	Categorie	Punctaj
1	Organizator local al WG3 Program Verification meeting as part of the COST action EuroProofNet (https://europroofnet.github.io/wg3-timisoara/)	eveniment	1
2	Organizator local al CICM 2021 (https://cicm-conference.org/2021/cicm.php)	eveniment	1
TOTAL			2

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C1. Justificări pentru indicatorul Consolidarea de echipe (perspectiva D)

Nr.crt.	Explicație / Referințe	Numar de ani	Punctaj
1	Echipa de cercetare in cadrul proiectului SAGE (Sept. 2022 - aug. 2024) - echipă de 6 membri (https://merascu.github.io/links/SAGE.html)	2	2
2	Echipa de cercetare in cadrul proiectului MANeUveR (Sept. 2017 - Dec. 2018) - echipă de 7 membri (https://merascu.github.io/links/MANeUveR.html)	1.3	1.3
TOTAL			3.3

C1. Justificări pentru indicatorul Dezvoltarea de pachete si instrumente software (perspectiva D)

Nr.crt.	Explicație / Referințe	Numar dezvoltatori	Punctaj
1	SAGE (https://github.com/SAGE-Project)	5	6

dezvoltatori:
Andreea Postovan,
Ioan Luca Vlad,
Eduard Laitin,
Marcus Ilisie, M. Erascu

2	MANeUveR (https://github.com/Maneuver-PED)	2	2	dezvoltatori: Flavia Micota & M.Erascu
TOTAL			8	

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C1. Justificări pentru indicatorul Profesor/cercetător asociat/visiting (perspectiva D)

Nr.crt.	Explicație / Referințe	Categorie	Punctaj	
1	University of Rochester, AIN Center for Entrepreneurship, host Dr. Duncan Moore (17.01.2022 - 31.05.2022)	top 200	36	Locul 154 in QS Global World Ranking
2	University of Oxford, host Dr. Daniel Kroening (31.01.2017-1.03.2017)	top 20	12	Locul 5 in QS Global World Ranking
TOTAL			48	

C1. Justificări pentru indicatorul PREMII (perspectiva D)

Nr.crt.	Explicație / Referințe	Categorie	Punctaj
1	2021 Fulbright-RAF Scholar Award (https://fulbright.ro/grant/the-fulbright-raf-scholar-award/)	cf. Anexei 2 - Premii si alte merite (la decizia universitatii sau institutului de cercetare) - max 10% din punctajul criteriului	6
2	BringITon2018 (http://bringiton.info.uaic.ro) mention award for MANeUveR: Management Agency for Cloud Resources; December 13-14, 2018. BringITon2018 is a workshop for promoting and capitalizing the interaction between computer science in academia and business environment.	idem	3

3	2011 DOC f-FORTE fellowship of the Austrian Academy of Sciences (http://stipendien.oeaw.ac.at/de/madalinae_rascu)	idem	1
4	2011 Marshall Plan Foundation Fellowship (http://www.marshallplan.at/index.php/2014-11-01-16-52-54/2011)	idem	1
TOTAL			11

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C1. Justificări pentru indicatorul Keynote/invited speaker/professor la

Nr.crt.	Explicație / Referințe	Categorie	Punctaj
1	The Tenth Congress of Romanian Mathematicians, Special session Logic and applications, June 30 - July 5, 2023, Pitești, Romania (http://www.imar.ro/~congmatro10/index.html)	D	1
2	Personal Invitation to the Dagstuhl Seminar 23401 on Automated mathematics: integrating proofs, algorithms and data (https://www.dagstuhl.de/seminars/seminar-calendar/seminar-details/23401) October 1 to October 6, 2023	D	1
3	Personal Invitation to the Dagstuhl Seminar 22072 on New Perspectives in Symbolic Computation and Satisfiability Checking (https://www.dagstuhl.de/en/program/calendar/semhp/?semnr=22072) February 13 – 18, 2022	D	1
4	Invited Speaker FROM 2019 (https://from2019.projects.uvt.ro)	D	1
TOTAL			4