

Ștefan Ciobâcă

Punctaje conform standardelor minime CNATDCU (3 iunie 2026)

https://scdoc.info.uaic.ro/wp-content/uploads/2023/02/Ordin-6.129_2016-standarde-minimale-ocupare-posturi.pdf

Criteriu		Punctaj Total	Punctaj A*+A+B	Punctaj A*+A	Proiect	Îndeplinit
A	Respectarea normelor de etică ale cercetării	-	-	-	-	
B	Productie Stiintifica	98.74	90.54	67.54	-	
	minim	56	40	24	-	
C	Impactul Rezultatelor	1015.84	803	-	-	
	minim	120	40	-	-	
D	Performanță academică	116	-	-	Director Grant AIPMDA (An Interactive Proof Mode for Dafny), Amazon Research Award (60 000 USD)	
	minim	60	-	-	1	

Ștefan Ciobacă - perspectiva B - producție științifică								
		Punctaj total:	98.74					
		Punctaj A*:	20.4	Punctaj A*+A	67.54			
		Punctaj A:	47.14	Punctaj A*+A+B	90.54			
		Punctaj B	23					
Index	An publicării	Nume articol	Nume Jurnal/Conferință	Autori	Număr articole	Categori	Punctaj	Observații
1	2009	Computing Knowledge in Security Protocols under Convergent	CADE (International Conference on Automated Deduction)	Stefan Ciobaca, Stéphanie Delaune, Steve Kremer	3	A	8	
2	2010	Protocol Composition for Arbitrary Primitives	CSF(IEEE Computer Security Foundations Symposium)	Stefan Ciobaca, Véronique Cortier	2	A	8	
3	2012	Automated Verification of Equivalence Properties of	ESOP (European Symposium on Programming)	Rohit Chadha, Stefan Ciobaca, Steve Kremer	3	A	8	
4	2012	Computing Knowledge in Security Protocols Under Convergent	JAR (Journal of Automated Reasoning)	Stefan Ciobaca, Stéphanie Delaune, Steve Kremer	3	B	4	Zona Galbenă, AIS 2016
5	2013	One-Path Reachability Logic	LICS (Logic in Computer Science)	Grigore Rosu, Andrei Stefanescu, Stefan Ciobaca, Brandon M. Moore	4	Astar	6	
6	2013	From Small-Step Semantics to Big-Step Semantics,	iFM (Integrated Formal Methods)	Stefan Ciobaca	1	B	4	
7	2014	All-Path Reachability Logic	RTA-TLCA 2014 (Rewriting Techniques And Applications/Typed Lambda Calculi	Andrei Ștefănescu, Ștefan Ciobacă, Radu Mereuță, Brandon M. Moore, Traian-Florin	6	A	2	RTA are rang A (https://portal.core.edu.au/conf-ranks/2123/)
8	2014	A Language- Independent Proof System for Mutual Program	ICFEM 2014 (International Conference on Formal Engineering Methods)	Stefan Ciobacă, Dorel Lucanu, Vlad Rusu, Grigore Roșu	4	B	2	Rang B în CORE 2021 (https://portal.core.edu.au/conf-ranks/1031/)
9	2014	Reducing Partial Equivalence to Partial Correctness	SYNASC 2014 (International Symposium on Symbolic and Numeric Algorithms for	Ștefan Ciobacă	1	C	2	SYNASC are rang C în CORE 2018, rang "national" în CORE 2020
10	2015	WADT 2014 (International Workshop on Algebraic	A Theoretical Foundation for Programming Language Aggregation	Ștefan Ciobacă, Dorel Lucanu, Grigore Roșu, Vlad Rusu	4	C	1	Publicație în volum LNCS
11	2016	A language-independent proof system for full program	Formal Aspects of Computing	Stefan Ciobaca, Dorel Lucanu, Vlad Rusu, Grigore Rosu	4	C	1	Zona Gri (75/104), AIS 2016
12	2016	Automated verification of equivalence properties of	ACM Transactions on Computational Logic (TOCL)	Rohit Chadha, Vincent Cheval, Ștefan Ciobacă, Steve Kremer	4	A	4	Zona Roșie (3/12 în Logic, 22/105 în Computer Science, Theory & Methods), AIS 2016
13	2017	PROGRAM LOGICS AND THEIR APPLICATIONS	REVUE ROUMAINE DE MATHEMATIQUES PURES ET APPLIQUEES	Arusoaie, Andrei; Ciobaca, Stefan; Lucanu, Dorel; Rosu, Grigore; Rusu, Vlad	6	D	0.25	
14	2018	A Comparison of Open-Source Static Analysis Tools for	SYNASC 2017	A Arusoaie, S Ciobăca, V Craciun, D Gavrilut, D Lucanu	5	C	0.66666	SYNASC are rang C în CORE 2018, rang "national" în CORE 2020
15	2018	A coinductive approach to proving reachability properties in	IJCAR 2018	Ș Ciobăcă, D Lucanu	2	Astar	12	Rang A* în CORE 2020 (https://portal.core.edu.au/conf-ranks/1314/)
16	2018	Unification Modulo Builtins	WoLLIC 2018	Ș Ciobăcă, A Arusoaie, D Lucanu	3	B	4	Rang B în CORE 2021 (https://portal.core.edu.au/conf-ranks/1912/)

17	2019	All-Path Reachability Logic	LMCS 2019	G Rosu, TF Serbanuta, B Moore, R Mereuta, S Ciobaca, A Stefanescu	6	B	1	Zona Galbenă, AIS 2019
18	2019	Reducing Total Correctness to Partial Correctness by a	WPTE 2018/EPTCS 2019	Andrei-Sebastian Buruiană, Ștefan Ciobăcă	2	C	2	SCOPUS, Workshop afiliat FLoC (CAV, CSF, FM, FSCD, ICLP, IJCAR, ITP, LICS, SAT) si FSCD (Rang B în CORE 2023)
19	2019	Verifying the DPLL Algorithm in Dafny	FROM 2019/EPTCS 303	Cezar-Constantin Andrici, Ștefan Ciobăcă	2	D	1	In conjunction with SYNASC (Rang C în CORE 2018)
20	2020	Trace-Relating Compiler Correctness and Secure	ESOP 2020	Carmine Abate, Roberto Blanco, Stefan Ciobaca, Adrien Durier, Deepak Garg, Catalin	9	A	1.14285	
21	2021	Verifying the Conversion into CNF in Dafny	WoLLIC 2021	Viorel Iordache, Stefan Ciobaca	2	B	4	Rang B în CORE 2021 (https://portal.core.edu.au/conf-ranks/1912/)
22	2021	An Extended Account of Trace-relating Compiler Correctness	ACM TOPLAS	Carmine Abate, Roberto Blanco, Stefan Ciobaca, Adrien Durier, Deepak Garg, Catalin	9	C	0.28571	Zona Gri, AIS 2021
23	2022	A Verified Implementation of the DPLL Algorithm in Dafny	Mathematics	Cezar-Constantin Andrici, Ștefan Ciobăcă	2	A	8	Zona Roșie, IF 2022
24	2023	Operationally-based program equivalence proofs using LCTRSs	JLAMP	Stefan Ciobaca, Dorel Lucanu, Andrei-Sebastian Buruiana	3	A	8	Zona Roșie, IF 2023
25	2024	Implementing, Specifying, and Verifying the QOI Format in	iFM (Integrated Formal Methods)	Stefan Ciobaca, Diana-Elena Gratie	2	B	4	
26	2024	Securing Verified IO Programs Against Unverified Code in F*	POPL	Cezar-Constantin Andrici, Stefan Ciobaca, Catalin Hritcu, Guido Martínez, Exequiel	7	Astar	2.4	

Ștefan Ciobâcă - perspectiva C - impactul rezultatelor		
Punctaj Citări:	Total	A*+A+B
	1015.84	803

Sursa citărilor: Google Scholar

Articol citat	Articol care citează	Autori	Categorie	Punctaj	Punctaj A*+A+B
Ciobâcă, Ș., Gratie, DE. (2025). Implementing, Specifying, and Verifying the QOI Format in Dafny: A Case Study. In: Kosmatov, N., Kovács, L. (eds) Integrated Formal Methods. IFM 2024. Lecture Notes in Computer Science, vol 15234. Springer, Cham. https://doi.org/10.1007/978-3-031-76554-4_3	Yani Ziani, Téo Bernier, Nikolai Kosmatov, Frédéric Louergue, and Daniel Gracia Pérez. 2025. Towards Formal Verification of a TPM Software Stack: Achievements and Opportunities. Form. Asp. Comput. Just Accepted (June 2025). https://doi.org/10.1145/3743153	2	C	2	0
Cezar-Constantin Andrici, Ștefan Ciobâcă, Cătălin Hrițcu, Guido Martínez, Exequiel Rivas, Éric Tanter, and Théo Winterhalter. 2024. Securing Verified IO Programs Against Unverified Code in F*. Proc. ACM Program. Lang. 8, POPL, Article 74 (January 2024), 34 pages. https://doi.org/10.1145/3632916	Jérémy Thibault, Roberto Blanco, Dongjae Lee, Sven Argo, Arthur Azevedo de Amorim, Aïna Linn Georges, Cătălin Hrițcu, and Andrew Tolmach. 2024. SECOMP: Formally Secure Compilation of Compartmentalized C Programs. In Proceedings of the 2024 on ACM SIGSAC Conference on Computer and Communications Security (CCS '24). Association for Computing Machinery, New York, NY, USA, 1061–1075. https://doi.org/10.1145/3658644.3670288	7	Astar	2.4	2.4
	Cezar-Constantin Andrici, Danel Ahman, Cătălin Hrițcu, Ruxandra Icleanu, Guido Martínez, Exequiel Rivas, and Théo Winterhalter. 2025. SecRef*: Securely Sharing Mutable References between Verified and Unverified Code in F*. Proc. ACM Program. Lang. 9, ICFP, Article 253 (August 2025), 31 pages. https://doi.org/10.1145/3747522	7	A	1.6	1.6
	A Certified Proof Checker for Deep Neural Network Verification in Imandra Remi Desmartin, Omri Isac, Grant Passmore, Ekaterina Komendantskaya, Kathrin Stark, Guy Katz Accepted at ITP 2025, Interactive Theorem Proving	7	A	1.6	1.6
	The Secrets Must Not Flow: Scaling Security Verification to Large Codebases (extended version) Linard Arquint, Samarth Kishor, Jason R. Koenig, Joey Dodds, Daniel Kroening, Peter Müller https://doi.org/10.48550/arXiv.2507.00595	7	D	0.2	0
Ștefan Ciobâcă, Dorel Lucanu, Andrei Sebastian Buruiană, Operationally-based program equivalence proofs using LCTRSs, Journal of Logical and Algebraic Methods in Programming, Volume 135, 2023, 100894, ISSN 2352-2208, https://doi.org/10.1016/j.jlamp.2023.100894 .	Guo, L., Kop, C. (2024). Higher-Order LCTRSs and Their Termination. In: Weirich, S. (eds) Programming Languages and Systems. ESOP 2024. Lecture Notes in Computer Science, vol 14577. Springer, Cham. https://doi.org/10.1007/978-3-031-57267-8_13	3	A	8	8
	Schöpf, J., Mitterwallner, F., Middeldorp, A. (2024). Confluence of Logically Constrained Rewrite Systems Revisited. In: Benz Müller, C., Heule, M.J., Schmidt, R.A. (eds) Automated Reasoning. IJCAR 2024. Lecture Notes in Computer Science(), vol 14740. Springer, Cham. https://doi.org/10.1007/978-3-031-63501-4_16	3	A	8	8

	Misaki Kojima, Naoki Nishida, Yutaka Matsubara, Transforming concurrent programs with semaphores into logically constrained term rewrite systems, Journal of Logical and Algebraic Methods in Programming, Volume 143, 2025, 101033, ISSN 2352-2208, https://doi.org/10.1016/j.jlamp.2024.101033. (https://www.sciencedirect.com/science/article/pii/S2352220824000877) Misaki Kojima, Naoki Nishida, A Sufficient Condition of Logically Constrained Term Rewrite Systems for Decidability of All-path Reachability Problems with Constant Destinations, Journal of Information Processing, 2024, 32 卷, p. 417-435, 公開日 2024/05/15, Online ISSN 1882-6652, https://doi.org/10.2197/ipsjip.32.417, https://www.jstage.jst.go.jp/article/ipsjip/32/0/32_417/_article/-char/ja, 抄録: Schöpfung, J., Middeldorp, A. (2025). Automated Analysis of Logically Constrained Rewrite Systems using crest. In: Gurfinkel, A., Heule, M. (eds) Tools and Algorithms for the Construction and Analysis of Systems. TACAS 2025. Lecture Notes in Computer Science, vol 15696. Springer, Cham. https://doi.org/10.1007/978-3-031-90643-5_7 Naoki Nishida, Misaki Kojima, Ayuka Matsumi, A nesting-preserving transformation of SIMP programs into logically constrained term rewrite systems, Journal of Logical and Algebraic Methods in Programming, Volume 144, 2025, 101045, ISSN 2352-2208, https://doi.org/10.1016/j.jlamp.2025.101045. (https://www.sciencedirect.com/science/article/pii/S2352220825000112) Kojima, M., Nishida, N. (2024). On Solving All-Path Reachability Problems for Starvation Freedom of Concurrent Rewrite Systems Under Process Fairness. In: Kovács, L., Sokolova, A. (eds) Reachability Problems. RP 2024. Lecture Notes in Computer Science, vol 15050. Springer, Cham. https://doi.org/10.1007/978-3-031-72621-7_5 Runtime-Error Verification by Reduction to All-Path Reachability Problems of Constrained Rewriting Misaki Kojima A Doctoral Dissertation submitted to Graduate School of Informatics, Nagoya University	3	C	2	0
		3	D	1	0
		3	A	8	8
		3	C	2	0
		3	C	2	0
Andrici, Cezar-Constantin, and Ștefan Ciobăcă. 2022. "A Verified Implementation of the DPLL Algorithm in Dafny" Mathematics 10, no. 13: 2264. https://doi.org/10.3390/math10132264	Huang, Yuxin, Qinzhou Niu, and Yanfang Song. 2025. "Research on Abstraction-Based Search Space Partitioning and Solving Satisfiability Problems" Mathematics 13, no. 5: 868. https://doi.org/10.3390/math13050868	2	C	2	0
Carmine Abate, Roberto Blanco, Ștefan Ciobăcă, Adrien Durier, Deepak Garg, Cătălin Hrițcu, Marco Patrignani, Éric Tanter, and Jérémy Thibault. 2021. An Extended Account of Trace-relating Compiler Correctness and Secure Compilation. ACM Trans. Program. Lang. Syst. 43, 4, Article 14 (December 2021), 48 pages. https://doi.org/10.1145/3460860	Santiago Arranz Olmos, Gilles Barthe, Lionel Blatter, Benjamin Grégoire, and Vincent Laporte. 2025. Preservation of Speculative Constant-Time by Compilation. Proc. ACM Program. Lang. 9, POPL, Article 44 (January 2025), 33 pages. https://doi.org/10.1145/3704880	9	Astar	1.714285714	1.714285714
	Yingquan Zhao, Zan Wang, Junjie Chen, Ruifeng Fu, Yanzhou Lu, Tianchang Gao, and Haojie Ye. 2024. Program Ingredients Abstraction and Instantiation for Synthesis-based JVM Testing. In Proceedings of the 2024 on ACM SIGSAC Conference on Computer and Communications Security (CCS '24). Association for Computing Machinery, New York, NY, USA, 3943–3957. https://doi.org/10.1145/3658644.3690366	9	Astar	1.714285714	1.714285714
	Arranz Olmos, S., Barthe, G., Gonzalez, R., Grégoire, B., Laporte, V., Lécenet, J.-C., Oliveira, T., & Schwabe, P. (2023). High-assurance zeroization. IACR Transactions on Cryptographic Hardware and Embedded Systems, 2024(1), 375-397. https://doi.org/10.46586/tches.v2024.i1.375-397 (presented at CHES 2024)	9	A	1.14285714	1.142857143
	Basile Pesin, Sylvain Boulmé, David Monniaux, and Marie-Laure Potet. 2025. Formally Verified Hardening of C Programs against Hardware Fault Injection. In Proceedings of the 14th ACM SIGPLAN International Conference on Certified Programs and Proofs (CPP '25). Association for Computing Machinery, New York, NY, USA, 140–155. https://doi.org/10.1145/3703595.3705880	9	D	0.14285714	0
	Arthur Charguéraud, Adam Chlipala, Andres Erbsen, and Samuel Gruetter. 2023. Omnisemantics: Smooth Handling of Nondeterminism. ACM Trans. Program. Lang. Syst. 45, 1, Article 5 (March 2023), 43 pages. https://doi.org/10.1145/3579834	9	C	0.28571428	0
	Transparent Transformations for Timing Side-Channel Analysis				
	Santiago Arranz-Olmos, Gilles Barthe, Lionel Blatter, Sören van der Wall, Zhiyuan Zhang	9	D	0.14285714	0
	https://doi.org/10.48550/arXiv.2501.04183				
	F. Derakhshan, Z. Zhang, A. Vasudevan and L. Jia, "Towards End-to-End Verified TEEs via Verified Interface Conformance and Certified Compilers," 2023 IEEE 36th Computer Security Foundations Symposium (CSF), Dubrovnik, Croatia, 2023, pp. 324-339, doi: 10.1109/CSF57540.2023.00021.	9	A	1.14285714	1.142857143

R. Künnemann, M. Patrignani and E. Cecchetti, "Computationally Bounded Robust Compilation and Universally Composable Security," 2024 IEEE 37th Computer Security Foundations Symposium (CSF), Enschede, Netherlands, 2024, pp. 265-278, doi: 10.1109/CSF61375.2024.00024.	9	A	1.14285714:	1.142857143
Marco Patrignani, Robert Künnemann, Riad S. Wahby, and Ethan Cecchetti. 2025. Universal Composability Is Robust Compilation. ACM Trans. Program. Lang. Syst. 46, 4, Article 13 (December 2024), 64 pages. https://doi.org/10.1145/3698234	9	C	0.28571428:	0
Ballou, K., Sherman, E. (2022). Incremental Transitive Closure for Zonal Abstract Domain. In: Deshmukh, J.V., Havelund, K., Perez, I. (eds) NASA Formal Methods. NFM 2022. Lecture Notes in Computer Science, vol 13260. Springer, Cham. https://doi.org/10.1007/978-3-031-06773-0_43	9	C	0.28571428:	0
Secure Composition of Robust and Optimising Compilers Matthis Kruse, Michael Backes, Marco Patrignani https://doi.org/10.48550/arXiv.2307.08681	9	D	0.14285714:	0
Ballou, K., Sherman, E. (2023). Identifying Minimal Changes in the Zone Abstract Domain. In: David, C., Sun, M. (eds) Theoretical Aspects of Software Engineering. TASE 2023. Lecture Notes in Computer Science, vol 13931. Springer, Cham. https://doi.org/10.1007/978-3-031-35257-7_13	9	C	0.28571428:	0
Ballou, K., Sherman, E. (2023). Minimally Comparing Relational Abstract Domains. In: André, É., Sun, J. (eds) Automated Technology for Verification and Analysis. ATVA 2023. Lecture Notes in Computer Science, vol 14216. Springer, Cham. https://doi.org/10.1007/978-3-031-45332-8_8	9	B	0.57142857:	0.571428571
lordache, V., Ciobăcă, Ș. (2021). Verifying the Conversion into CNF in Dafny. In: Silva, A., Wassermann, R., de Queiroz, R. (eds) Logic, Language, Information, and Computation. WoLLIC 2021. Lecture Notes in Computer Science(), vol 13038. Springer, Cham. https://doi.org/10.1007/978-3-030-88853-4_10	2	Astar	12	12
Marco Zocca. 2023. Natural Language Annotations for Reasoning about Program Semantics. In Findings of the Association for Computational Linguistics: EMNLP 2023, pages 8961–8966, Singapore. Association for Computational Linguistics.	9	Astar	1.71428571:	1.714285714
Marco Patrignani and Marco Guarnieri. 2021. Exorcising Spectres with Secure Compilers. In Proceedings of the 2021 ACM SIGSAC Conference on Computer and Communications Security (CCS '21). Association for Computing Machinery, New York, NY, USA, 445–461. https://doi.org/10.1145/3460120.3484534	9	C	0.28571428:	0
Matteo Busi, Job Noorman, Jo Van Bulck, Letterio Galletta, Pierpaolo Degano, Jan Tobias Mühlberg, and Frank Piessens. 2021. Securing Interruptible Enclaved Execution on Small Microprocessors. ACM Trans. Program. Lang. Syst. 43, 3, Article 12 (September 2021), 77 pages. https://doi.org/10.1145/3470534	9	C	0.28571428:	0
Marco Patrignani and Deepak Garg. 2021. Robustly Safe Compilation, an Efficient Form of Secure Compilation. ACM Trans. Program. Lang. Syst. 43, 1, Article 1 (March 2021), 41 pages. https://doi.org/10.1145/3436809	9	C	0.28571428:	0
Ibrhim H, Hassan H, Nabil E. 2021. A conflicts' classification for IoT-based services: a comparative survey. PeerJ Computer Science 7: e480 https://doi.org/10.7717/peerj-cs.480	9	Astar	1.71428571:	1.714285714
G. Barthe, S. Blazy, R. Hutin and D. Pichardie, "Secure Compilation of Constant-Resource Programs," 2021 IEEE 34th Computer Security Foundations Symposium (CSF), Dubrovnik, Croatia, 2021, pp. 1-12, doi: 10.1109/CSF51468.2021.00020.	9	A	1.14285714:	1.142857143
A. El-Korashy, S. Tsampas, M. Patrignani, D. Devriese, D. Garg and F. Piessens, "CapablePtrs: Securely Compiling Partial Programs Using the Pointers-as-Capabilities Principle," 2021 IEEE 34th Computer Security Foundations Symposium (CSF), Dubrovnik, Croatia, 2021, pp. 1-16, doi: 10.1109/CSF51468.2021.00036.	9	A	1.14285714:	1.142857143
A. El-Korashy, R. Blanco, J. Thibault, A. Durier, D. Garg and C. Hrițcu, "SecurePtrs: Proving Secure Compilation with Data-Flow Back-Translation and Turn-Taking Simulation," 2022 IEEE 35th Computer Security Foundations Symposium (CSF), Haifa, Israel, 2022, pp. 64-79, doi: 10.1109/CSF54842.2022.9919680.	9	A	1.14285714:	1.142857143
Abate, C., Busi, M., Tsampas, S. (2021). Fully Abstract and Robust Compilation. In: Oh, H. (eds) Programming Languages and Systems. APLAS 2021. Lecture Notes in Computer Science(), vol 13008. Springer, Cham. https://doi.org/10.1007/978-3-030-89051-3_6	9	B	0.57142857:	0.571428571
Tag-Based Security in C: Writing and Specifying Flexible Protection	9	D	0.14285714:	0
Anderson, Sean Noble. Portland State University ProQuest Dissertations & Theses, 2024. 31639415.	9	D	0.14285714:	0
A Formal Model for a General-Purpose Compiler for Secure Multiparty Computations	9	D	0.14285714:	0
Rathore, Amy Marie. State University of New York at Buffalo ProQuest Dissertations & Theses, 2022. 29325907.	9	C	0.28571428:	0
Zúñiga, Angel, and Gemma Bel-Enguix. 2020. "Coinductive Natural Semantics for Compiler Verification in Coq" Mathematics 8, no. 9: 1573. https://doi.org/10.3390/math8091573	9	D	0.14285714:	0
Università di Pisa Ph.D. Thesis Secure Compilation All the Way Down secure compilation at different levels of the computation stack Matteo Busi April 2021	9	D	0.14285714:	0

Verifying the DPLL Algorithm in Dafny Cezar-Constantin Andrici, Ștefan Ciobăcă In Mircea Marin and Adrian Crăciun: Proceedings Third Symposium on Working Formal Methods (FROM 2019), Timișoara, Romania, 3-5 September 2019, Electronic Proceedings in Theoretical Computer Science 303, pp. 3–15. Published: 2nd September 2019. ArXived at: https://dx.doi.org/10.4204/EPTCS.303.1	Proceedings of the 18th USENIX Symposium on Operating Systems Design and Implementation IronSpec: Increasing the Reliability of Formal Specifications Eli Goldweber, Weixin Yu, Seyed Armin Vakili Ghahani, and Manos Kapritsos, University of Michigan https://www.usenix.org/conference/osdi24/presentation/goldweber July 10–12, 2024 • Santa Clara, CA, USA 978-1-939133-40-3	2	Astar	12	12
	Cassez, F. (2021). Verification of the Incremental Merkle Tree Algorithm with Dafny. In: Huisman, M., Păsăreanu, C., Zhan, N. (eds) Formal Methods. FM 2021. Lecture Notes in Computer Science(), vol 13047. Springer, Cham. https://doi.org/10.1007/978-3-030-90870-6_24	2	A	8	8
	Increasing The Practicality Of Verification Using Incomplete Solutions Eli David Goldweber University of Michigan 2025	2	D	1	0
	Automated Approaches for Program Verification and Repair Yale University William T. Hallahan May 2022	2	D	1	0
Andrei Stefanescu ; Stefan Ciobaca ; Radu Mereuta ; Brandon Moore ; Traian Florin Serbanuta ; Grigore Rosu - All-Path Reachability Logic Imcs:4939 - Logical Methods in Computer Science, April 30, 2019, Volume 15, Issue 2 - https://doi.org/10.23638/LMCS-15(2:5)2019	Park, D., Zhang, Y., Rosu, G. (2020). End-to-End Formal Verification of Ethereum 2.0 Deposit Smart Contract. In: Lahiri, S., Wang, C. (eds) Computer Aided Verification. CAV 2020. Lecture Notes in Computer Science(), vol 12224. Springer, Cham. https://doi.org/10.1007/978-3-030-53288-8_8	6	Astar	3	3
	Misaki Kojima, Naoki Nishida, Reducing non-occurrence of specified runtime errors to all-path reachability problems of constrained rewriting, Journal of Logical and Algebraic Methods in Programming, Volume 135, 2023, 100903, ISSN 2352-2208, https://doi.org/10.1016/j.jlamp.2023.100903 .	6	C	0.5	0
	Kojima, M., Nishida, N. (2023). From Starvation Freedom to All-Path Reachability Problems in Constrained Rewriting. In: Hanus, M., Inclezan, D. (eds) Practical Aspects of Declarative Languages. PADL 2023. Lecture Notes in Computer Science, vol 13880. Springer, Cham. https://doi.org/10.1007/978-3-031-24841-2_11	6	C	0.5	0
	Misaki Kojima, Naoki Nishida, Yutaka Matsubara, Transforming concurrent programs with semaphores into logically constrained term rewrite systems, Journal of Logical and Algebraic Methods in Programming, Volume 143, 2025, 101033, ISSN 2352-2208, https://doi.org/10.1016/j.jlamp.2024.101033 . (https://www.sciencedirect.com/science/article/pii/S2352220824000877)	6	C	0.5	0
	Misaki Kojima, Naoki Nishida, A Sufficient Condition of Logically Constrained Term Rewrite Systems for Decidability of All-path Reachability Problems with Constant Destinations, Journal of Information Processing, 2024, 32 卷, p. 417-435, 公開日 2024/05/15, Online ISSN 1882-6652, https://doi.org/10.2197/ipsjip.32.417 , https://www.jstage.jst.go.jp/article/ipsjip/32/0/32_417/_article/-char/ja , 抄録	6	D	0.25	0
	Lungu, Al., Lucanu, D. (2022). Supporting Algorithm Analysis with Symbolic Execution in Alk. In: Aït-Ameur, Y., Crăciun, F. (eds) Theoretical Aspects of Software Engineering. TASE 2022. Lecture Notes in Computer Science, vol 13299. Springer, Cham. https://doi.org/10.1007/978-3-031-10363-6_27	6	C	0.5	0
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Naoki Nishida, Misaki Kojima, Ayuka Matsumi, A nesting-preserving transformation of SIMP programs into logically constrained term rewrite systems, Journal of Logical and Algebraic Methods in Programming, Volume 144, 2025, 101045, ISSN 2352-2208, https://doi.org/10.1016/j.jlamp.2025.101045 . (https://www.sciencedirect.com/science/article/pii/S2352220825000112)	6	C	0.5	0
Kojima, M., Nishida, N. (2024). On Solving All-Path Reachability Problems for Starvation Freedom of Concurrent Rewrite Systems Under Process Fairness. In: Kovács, L., Sokolova, A. (eds) Reachability Problems. RP 2024. Lecture Notes in Computer Science, vol 15050. Springer, Cham. https://doi.org/10.1007/978-3-031-72621-7_5	6	C	0.5	0
Alk: a formal-methods-based educational platform for enhancing algorithmic thinking Lungu, Alexandru-Ioan, Teodorescu, Vlad, Zaborila, Andrei, Andrei, Oana ORCID logo and Lucanu, Dorel (2024) Alk: a formal-methods-based educational platform for enhancing algorithmic thinking. Scientific Annals of Computer Science, XXXIV(1), pp. 39-66. (doi: 10.47743/SACS.2024.1.39)	6	C	0.5	0
"Runtime-Error Verification by Reduction to All-Path Reachability Problems of Constrained Rewriting Misaki Kojima A Doctoral Dissertation submitted to Graduate School of Informatics, Nagoya University" Progress in Programming Language Semantics Frameworks	6	D	0.25	0
Jan Tužil Brno, January 2025 Masaryk University (Co)inductive Proof Systems for Compositional Proofs in Reachability Logic	6	D	0.25	0
Vlad Rusu David Nowak In Mircea Marin and Adrian Crăciun: Proceedings Third Symposium on Working Formal Methods (FROM 2019), Timișoara, Romania, 3-5 September 2019, Electronic Proceedings in Theoretical Computer Science 303, pp. 32–47. Published: 2nd September 2019. ArXived at: https://dx.doi.org/10.4204/EPTCS.303.3	6	D	0.25	0
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	Misaki Kojima, Naoki Nishida, A Sufficient Condition of Logically Constrained Term Rewrite Systems for Decidability of All-path Reachability Problems with Constant Destinations, Journal of Information Processing, 2024, 32 卷, p. 417-435, 公開日 2024/05/15, Online ISSN 1882-6652, https://doi.org/10.2197/ipsjip.32.417 , https://www.jstage.jst.go.jp/article/ipsjip/32/0/32_417/_article/-char/ja , 抄録	6	D	0.25	0
	"Runtime-Error Verification by Reduction to All-Path Reachability Problems of Constrained Rewriting Misaki Kojima A Doctoral Dissertation submitted to Graduate School of Informatics, Nagoya University"	6	D	0.25	0
	Francisco Durán, Steven Eker, Santiago Escobar, Narciso Martí-Oliet, José Meseguer, Rubén Rubio, Carolyn Talcott, Programming and symbolic computation in Maude, Journal of Logical and Algebraic Methods in Programming, Volume 110, 2020, 100497, ISSN 2352-2208, https://doi.org/10.1016/j.jlamp.2019.100497 . (https://www.sciencedirect.com/science/article/pii/S2352220818301135)	2	C	2	0
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Skeirik, S., Stefanescu, A., Meseguer, J. (2018). A Constructor-Based Reachability Logic for Rewrite Theories. In: Fioravanti, F., Gallagher, J. (eds) Logic-Based Program Synthesis and Transformation. LOPSTR 2017. Lecture Notes in Computer Science(), vol 10855. Springer, Cham. https://doi.org/10.1007/978-3-319-94460-9_12	2	C	2	0
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Naoki Nishida, Misaki Kojima, Ayuka Matsumi, A nesting-preserving transformation of SIMP programs into logically constrained term rewrite systems, Journal of Logical and Algebraic Methods in Programming, Volume 144, 2025, 101045, ISSN 2352-2208, https://doi.org/10.1016/j.jlamp.2025.101045 . (https://www.sciencedirect.com/science/article/pii/S2352220825000112)	2	C	2	0
Kojima, M., Nishida, N. (2024). On Solving All-Path Reachability Problems for Starvation Freedom of Concurrent Rewrite Systems Under Process Fairness. In: Kovács, L., Sokolova, A. (eds) Reachability Problems. RP 2024. Lecture Notes in Computer Science, vol 15050. Springer, Cham. https://doi.org/10.1007/978-3-031-72621-7_5	2	C	2	0
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REWRITING-BASED SYMBOLIC METHODS FOR DISTRIBUTED SYSTEM VERIFICATION BY STEPHEN SKEIRIK University of Illinois at Urbana-Champaign, 2019 Urbana, Illinois	2	D	1	0
Runtime-Error Verification by Reduction to All-Path Reachability Problems of Constrained Rewriting Misaki Kojima A Doctoral Dissertation submitted to Graduate School of Informatics, Nagoya University	2	D	1	0
(Co)inductive Proof Systems for Compositional Proofs in Reachability Logic Vlad Rusu David Nowak In Mircea Marin and Adrian Crăciun: Proceedings Third Symposium on Working Formal Methods (FROM 2019), Timișoara, Romania, 3-5 September 2019, Electronic Proceedings in Theoretical Computer Science 303, pp. 32–47. Published: 2nd September 2019. ArXived at: https://dx.doi.org/10.4204/EPTCS.303.3	2	D	1	0
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Francisco Durán, Steven Eker, Santiago Escobar, Narciso Martí-Oliet, José Meseguer, Rubén Rubio, Carolyn Talcott, Programming and symbolic computation in Maude, Journal of Logical and Algebraic Methods in Programming, Volume 110, 2020, 100497, ISSN 2352-2208, https://doi.org/10.1016/j.jlamp.2019.100497 . (https://www.sciencedirect.com/science/article/pii/S2352220818301135)	2	C	2	0
José Meseguer, Generalized rewrite theories, coherence completion, and symbolic methods, Journal of Logical and Algebraic Methods in Programming, Volume 110, 2020, 100483, ISSN 2352-2208, https://doi.org/10.1016/j.jlamp.2019.100483 .	2	C	2	0

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(IJACSA) International Journal of Advanced Computer Science and Applications, Vol. 12, No. 11, 2021 Software Security Static Analysis False Alerts Handling Approaches Aymen Akremi College of Computer and Information Systems Umm Al-Qura University (UQU) Makkah, Saudi Arabia	5	D	0.333333333	0
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	David Nowak				
	In Mircea Marin and Adrian Crăciun: Proceedings Third Symposium on Working Formal Methods (FROM 2019), Timișoara, Romania, 3-5 September 2019, Electronic Proceedings in Theoretical Computer Science 303, pp. 32–47.	4	D	0.5	0
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	Arapinis, Myrto, Vincent Cheval, and Stéphanie Delaune. "Verifying privacy-type properties in a modular way." In 2012 IEEE 25th Computer Security Foundations Symposium, pp. 95-109. IEEE, 2012.	2	A	8	8
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	Kamil, Allaa, and Gavin Lowe. "Understanding abstractions of secure channels." In International Workshop on Formal Aspects in Security and Trust, pp. 50-64. Berlin, Heidelberg: Springer Berlin Heidelberg, 2010.	2	C	2	0
	Pankova, Alisa, and Peeter Laud. "Symbolic analysis of cryptographic protocols containing bilinear pairings." In 2012 IEEE 25th Computer Security Foundations Symposium, pp. 63-77. IEEE, 2012.	2	A	8	8

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Bauer, Matthew S., Rohit Chadha, and Mahesh Viswanathan. "Modular verification of protocol equivalence in the presence of randomness." In European Symposium on Research in Computer Security, pp. 187-205. Cham: Springer International Publishing, 2017.	2	C	2	0
Gibson-Robinson, Thomas, Allaa Kamil, and Gavin Lowe. "Verifying layered security protocols." Journal of Computer Security 23, no. 3 (2015): 259-307.	2	D	1	0
Arapinis, Myrto, Stéphanie Delaune, and Steve Kremer. "Dynamic tags for security protocols." Logical Methods in Computer Science 10 (2014).	2	C	2	0
Fattahi, Jaouhar, and Mohamed Mejri. "Secrecy by witness-functions under equational theories." In 2015 7th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), pp. 1-8. IEEE, 2015.	2	A	8	8
Fattahi, Jaouhar, Mohamed Mejri, and Hanane Houmani. "Secrecy by witness-functions on increasing protocols." In Proceedings of the 2014 6th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), pp. 1-6. IEEE, 2014.	2	A	8	8
Fattahi, Jaouhar, Mohamed Mejri, and Emil Pricop. "Tracking security flaws in cryptographic protocols using witness-functions." In 2015 IEEE International Conference on Systems, Man, and Cybernetics, pp. 1189-1196. IEEE, 2015.	2	B	4	4

Stefan Ciobaca - perspectiva D - performanță academică

Total:		116
Activitate	Observații	Punctaj
Cărți autor editate și capitole publicate în edituri de categoria		
CIOBÂCĂ, ȘTEFAN. Electronic voting : verification and composition of security protocols / Ștefan Ciobâcă. - Iași : Editura Universității "Al. I. Cuza", 2015	ISBN 978-606-714-146-7	2
Publicarea unui curs universitar în format electronic		
Logică pentru informatică	https://profs.info.uaic.ro/stefan.ciobaca/logica-2018-2019/index.html	2
Logic for Computer Science	https://profs.info.uaic.ro/stefan.ciobaca/logic-2018-2019/index.html	2
Programare Funcțională	https://profs.info.uaic.ro/stefan.ciobaca/pf-2018-2019/	2

Proiectarea Algoritmilor	https://sites.google.com/site/fiicoursepa/curriculum https://sites.google.com/view/fii-ad/2025/lectures	2
Algorithm Design	https://sites.google.com/site/fiicoursepa/curriculum https://sites.google.com/view/fii-ad/2025/lectures	2
Director/editor al unei reviste		
Editor Special Issue JLAMP (Q1 JIF 2023, 2024)	https://www.sciencedirect.com/special-issue/10RZT55CTP1 https://www.sciencedirect.com/special-issue/10KH5G42004	24
Membru in comitetul științific (de program) al unor conferințe, simpozioane, workshop-uri		
PAS 2015	https://pas2015.cc4cm.org/organizers.html	0
WRLA 2016	workshop ETAPS 2016, proceedings LNCS	1
DACS 2016	workshop afiliat DFCS http://fmi.unibuc.ro/dacs2016/	0.5

DACS 2017	https://tcs.ieat.ro/dacs2017/ workshop afiliat SYNASC	0.5
WRLA 2018	workshop ETAPS 2018, proceedings LNCS	1
FROM 2018		0
WPTE 2019	asociat FSCD	1
PERR 2019	asociat ETAPS	1
FROM 2019	asociat SYNASC (0.5 puncte)	0.5
FROM 2020	asociat ICCP	0.5
WPTE 2021	asociat FSCD	1
POPL 2021 Artifact Evaluation Committee		0
WPTE 2022 (PC chair)	asociat FLoC/FSCD	1
FROM 2022	asociat WoLLIC	1

WPTE 2023	asociat FSCD/CADE	1
ICFP 2025 Artifact Evaluation Comittee		0
FROM 2025		0
Membru în grant/proiect/contract/program de cercetare:		
Director Grant AIPMDA (An Interactive Proof Mode for Dafny), Amazon Research Award (60 000 USD)		4
Membru Grant Ministerul Cercetării și Inovării prin Programul 1 – Dezvoltarea sistemului național de cercetare-dezvoltare, Subprogram 1.2 – Performanță instituțională- Proiecte de finanțare a excelenței în CDI, Contract nr.34PFE/19.10.2018 (22 membri, 5.4 milioane lei)		5
Membru proiect EXCELENT-UAIC (Dezvoltarea capacității instituționale de cercetare a Universității „Alexandru Ioan Cuza” din Iași prin promovarea sinergiei cercetători-cadre didactice pentru creșterea excelenței internaționale, FDI 2024),		2
Director Grant UAIC GI-UAIC-2018-07 (aprox 20.000 euro)		2
Membru ANR SeSur AVOTE (>= 200.000euro)		4
Membru POSCCE DAK (>= 500.000euro)		5

Membru POSDRU (≥ 500.000 euro) suport pentru creșterea competitivității cercetării în domeniul Științelor exacte - ID 137750 – proiect post-doctoral “Echivalența de programe bazată pe logica potrivirilor”		5
Membru Bridge Grant IZA (= 100.000 euro)		3
Organizare evenimente științifice/școli de vară		
SSLF 2012, membru în comitetul de organizare	Summer School on Language Frameworks, Sinaia 2012	1
Olimpiada Națională de Informatică pentru Studenți 2014, membru în comitetul de organizare		1
Olimpiada Națională de Informatică pentru Studenți 2015, membru în comitetul de organizare		1
Organization Chair FROM 2018		2
Organization Chair WoLLIC 2022	https://wollic2022.github.io/	2
Organizare FROM 2022		1
Organizare FROM 2025		1

ONIGIM 2024 (președinte de onoare)		1
ONIGIM 2026 (președinte)		1
Keynote/invited speaker la evenimenteluniversitdli		
Invited speaker DACS 2015	http://dacs2015.3x.ro/	1
Invited speaker FROM 2017	https://unibuc.ro/~conference/from2017/	1
Invited lecturer Coq Autumn School Septembrie 2018 UNIBUC	școală de vară națională https://icub.unibuc.ro/stec_event/icub-coq-autumn-school/	2
Invited lecturer ISR 2019	https://isr2019.minesparis.psl.eu/	4
Profesor/researcher asociat/visiting la o universitate		
Lille 1/Inria (Dreampal Team) – 1 lună (2013)	echipă Vlad Rusu	1
Membru in comisii doctorat		

Membru in comisii de evaluare a tezelor de doctorat la o universitate din top	Teză Gheorghe Bălan (2025) Universitatea Alexandru Ioan Cuza din Iași	0.5
Membru in comisii de evaluare a tezelor de doctorat la o universitate din top	Adelina-Nicoleta Staicu (20 februarie 2026, UNIBUC)	0.5
Membru in comisii de evaluare a tezelor de doctorat la o universitate din top	Marina Cernat (20 februarie 2026, UNIBUC)	0.5
Membru in comisii de evaluare a tezelor de doctorat la o universitate din top	Teză Alexandru Ioniță (2025) IMAR	0.5
Membru in comisii de evaluare a tezelor de doctorat la o universitate din top	Teză Ana-Cristina Țurlea (2020) Universitatea Burești https://doctorat.unibuc. ro/events/turlea-ana-cristina/	0.5
Membru in comisii de evaluare a tezelor de doctorat la o universitate din top	Teză Marius Dumitran (2015) Universitatea Burești	0.5
Membru in comisie de indrumare a doctoranzilor (Denis Bogdănaș)		1
Membru in comisie de indrumare a doctoranzilor (Vlad Crăciun)		1
Membru in comisie de indrumare a doctoranzilor (Marilena Lupașcu)		1

Membru in comisie de indrumare a doctoranzilor (Mogage Andrei-Cătălin)		1
Membru in comisie de indrumare a doctoranzilor (Andrei Arusoaie)		1
Dezvoltarea de pachete și instrumente software		
K framework – dezvoltator, diferite componente, inclusiv un pachet pentru agregarea definiției a două limbaje	kframework.org	2
AKiSs – dezvoltator principal, o unealtă pentru verificarea automata a proprietăților de echivalență pentru protocoale de securitate	https://github.com/ciobaca/akiss	2
SubVariant – dezvoltator principal, unealtă pentru calcularea mulțimilor finite și complete de varianți a unui termen în teorii subterm convergente	https://lsv.ens-paris-saclay.fr/Publis/RAPPORTS_LSV/PDF/rr-lsv-2011-06.pdf https://profs.info.uaic.ro/stefan.ciobaca/subvariant/	2
KiSs – dezvoltator principal, unealtă de decizie pentru echivalența statică și deducție pentru o clasă de teorii ecuaționale convergente	https://github.com/ciobaca/kiss	2

KNIME framework, dezvoltator, un pachet pentru cercetarea în domeniul oncologiei – algoritm de segmentare a imaginilor în cellule și noduri de învățare activă/predicție SVM).	The implementation was at the base of the following result: Nicolas Cebron, Michael R. Berthold: Adaptive Active Classification of Cell Assay Images. PKDD 2006: 79-90	2
RMT - dezvoltator principal, rescriere modulo teorii	https://github.com/ciobaca/rmt	2
Premii și alte merite		
Tânărul Cercetător al Anului 2013 – Facultatea de Informatică		0
ACM Best of Computing Notable Books and Articles pentru articolul Automated verification of equivalence properties of cryptographic protocols, R Chadha, V Cheval, S Ciobaca, S Kremer, Transactions on Computational Logic (TOCL) 17 (4), 23, 2016		0
VerifyThis 2025 Best Contributed Problem (https://verifythis.github.io/onsite/prizes/)		0