

Conf. univ. dr. Ștefan Ciobâcă

Facultatea de Informatică

Universitatea Alexandru Ioan Cuza

Listă de lucrări (dosar examen promovare)

3 iunie 2026

a. Zece lucrări reprezentative

Index	An publicare	Titlu Articol	Nume Jurnal/Conferință	Autori
1	2018	A coinductive approach to proving reachability properties in logically constrained term rewriting systems	IJCAR 2018	Ș Ciobâcă, D Lucanu
2	2018	Unification Modulo Builtins	WoLLIC 2018	Ș Ciobâcă, A Arusoaie, D Lucanu
3	2019	Reducing Total Correctness to Partial Correctness by a Transformation of the Language Semantics	WPTE 2018/EPTCS 2019	Andrei-Sebastian Buruiană, Ștefan Ciobâcă
4	2019	Verifying the DPLL Algorithm in Dafny	FROM 2019/EPTCS 303	Cezar-Constantin Andrici, Ștefan Ciobâcă
5	2019	All-Path Reachability Logic	LMCS 2019	G Rosu, TF Serbanuta, B Moore, R Mereuta, S Ciobaca, A Stefanescu
6	2021	An Extended Account of Trace-relating Compiler Correctness and Secure Compilation	ACM TOPLAS	Carmine Abate, Roberto Blanco, Stefan Ciobaca, Adrien Durier, Deepak Garg, Catalin Hritcu, Marco Patrignani, Éric

				Tanter, Jérémy Thibault
7	2021	Verifying the Conversion into CNF in Dafny	WoLLIC 2021	Viorel Iordache, Stefan Ciobaca
8	2023	Operationally-based program equivalence proofs using LCTRSs	JLAMP	Stefan Ciobaca, Dorel Lucanu, Andrei-Sebastian Buruiana
9	2024	Implementing, Specifying, and Verifying the QOI Format in Dafny: A Case Study	iFM (Integrated Formal Methods)	Stefan Ciobaca, Diana-Elena Gratie
10	2024	Securing Verified IO Programs Against Unverified Code in F*	POPL	Cezar-Constantin Andrici, Stefan Ciobaca, Catalin Hritcu, Guido Martínez, Exequiel Rivas, Éric Tanter, Théo Winterhalter

b. Teza de doctorat

An susținere	Ecole Normale Supérieure de Cachan
2011	Ștefan CIOBĂCĂ: Verification and Composition of Security Protocols with Applications to Electronic Voting

c. Brevete (N/A)

d. Cărți și capitole în cărți

CIOBĂCĂ, ȘTEFAN. Electronic voting : verification and composition of security protocols / Ștefan Ciobacă. - Iași : Editura Universității "Al. I. Cuza", 2015	ISBN 978-606-714-146-7
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e. Articole publicate în reviste

Index	An publicare	Titlu Articol	Nume Revistă/Conferință	Autori
1	2012	Computing Knowledge in Security Protocols Under Convergent Equational Theories	JAR (Journal of Automated Reasoning)	Stefan Ciobaca, Stéphanie Delaune, Steve Kremer

2	2016	A language-independent proof system for full program equivalence	Formal Aspects of Computing	Stefan Ciobaca, Dorel Lucanu, Vlad Rusu, Grigore Rosu
3	2016	Automated verification of equivalence properties of cryptographic protocols	ACM Transactions on Computational Logic (TOCL)	Rohit Chadha, Vincent Cheval, Ștefan Ciobâcă, Steve Kremer
4	2017	PROGRAM LOGICS AND THEIR APPLICATIONS	REVUE ROUMAINE DE MATHEMATIQUES PURES ET APPLIQUEES	Arusoaie, Andrei; Ciobaca, Stefan; Lucanu, Dorel; Rosu, Grigore; Rusu, Vlad
5	2019	All-Path Reachability Logic	LMCS 2019	G Rosu, TF Serbanuta, B Moore, R Mereuta, S Ciobaca, A Stefanescu
6	2021	An Extended Account of Trace-relating Compiler Correctness and Secure Compilation	ACM TOPLAS	Carmine Abate, Roberto Blanco, Stefan Ciobaca, Adrien Durier, Deepak Garg, Catalin Hritcu, Marco Patrignani, Éric Tanter, Jérémy Thibault
7	2022	A Verified Implementation of the DPLL Algorithm in Dafny	Mathematics	Cezar-Constantin Andrici, Ștefan Ciobâcă
8	2023	Operationally-based program equivalence proofs using LCTRSs	JLAMP	Stefan Ciobaca, Dorel Lucanu, Andrei-Sebastian Buruiana
9	2024	Securing Verified IO Programs Against Unverified Code in F*	Proceedings of the ACM on Programming Languages (POPL)	Cezar-Constantin Andrici, Stefan Ciobaca, Catalin Hritcu, Guido Martínez, Exequiel Rivas, Éric Tanter, Théo Winterhalter

f. Articole publicate în volume

Index	An publicare	Titlu Articol	Nume Jurnal/Conferință	Autori
1	2009	Computing Knowledge in Security Protocols under Convergent Equational Theories	CADE (International Conference on Automated Deduction)	Stefan Ciobaca, Stéphanie Delaune, Steve Kremer
2	2010	Protocol Composition for Arbitrary Primitives	CSF(IEEE Computer Security Foundations Symposium)	Stefan Ciobaca, Véronique Cortier
3	2012	Automated Verification of Equivalence Properties of Cryptographic Protocols	ESOP (European Symposium on Programming)	Rohit Chadha, Stefan Ciobaca, Steve Kremer
5	2013	One-Path Reachability Logic	LICS (Logic in Computer Science)	Grigore Rosu, Andrei Stefanescu, Stefan Ciobaca, Brandon M. Moore
6	2013	From Small-Step Semantics to Big-Step Semantics, Automatically	iFM (Integrated Formal Methods)	Stefan Ciobaca
7	2014	All-Path Reachability Logic	RTA-TLCA 2014 (Rewriting Techniques And Applications/Typed Lambda Calculi And Applications)	Andrei Ștefănescu, Ștefan Ciobăcă, Radu Mereuță, Brandon M. Moore, Traian-Florin Șerbănuță, Grigore Roșu
8	2014	A Language- Independent Proof System for Mutual Program Equivalence	ICFEM 2014 (International Conference on Formal Engineering Methods)	Stefan Ciobăcă, Dorel Lucanu, Vlad Rusu, Grigore Roșu
9	2014	Reducing Partial Equivalence to Partial Correctness	SYNASC 2014 (International Symposium on Symbolic and Numeric Algorithms for Scientific Computing)	Ștefan Ciobăcă
10	2015	A Theoretical Foundation for Programming Language Aggregation	WADT 2014 (International Workshop on Algebraic Development Techniques)	Ștefan Ciobăcă, Dorel Lucanu, Grigore Roșu, Vlad Rusu
11	2018	A Comparison of Open-Source Static Analysis Tools for Vulnerability Detection in C/C++ Code	SYNASC 2017	A Arusoaie, S Ciobăca, V Craciun, D Gavrilut, D Lucanu

12	2018	A coinductive approach to proving reachability properties in logically constrained term rewriting systems	IJCAR 2018	Ș Ciobâcă, D Lucanu
13	2018	Unification Modulo Builtins	WoLLIC 2018	Ș Ciobâcă, A Arusoaie, D Lucanu
14	2019	Reducing Total Correctness to Partial Correctness by a Transformation of the Language Semantics	WPTE 2018/EPTCS 2019	Andrei-Sebastian Buruiană, Ștefan Ciobâcă
15	2019	Verifying the DPLL Algorithm in Dafny	FROM 2019/EPTCS 303	Cezar-Constantin Andrici, Ștefan Ciobâcă
16	2020	Trace-Relating Compiler Correctness and Secure Compilation	ESOP 2020	Carmine Abate, Roberto Blanco, Ștefan Ciobaca, Adrien Durier, Deepak Garg, Catalin Hritcu, Marco Patrignani, Éric Tanter, Jérémy Thibault
17	2021	Verifying the Conversion into CNF in Dafny	WoLLIC 2021	Viorel Iordache, Ștefan Ciobaca
18	2024	Implementing, Specifying, and Verifying the QOI Format in Dafny: A Case Study	iFM (Integrated Formal Methods)	Ștefan Ciobaca, Diana-Elena Gratie

g. Alte lucrări

Index	An publicare	Titlu Articol	Nume Jurnal/Conferință	Autori
1	2017	Automatically Constructing a Type System from the Small-Steps Semantics. p. 43-44 (abstract);	TYPES 2017	Ștefan Ciobâcă, Vlad Andrei Tudose