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Informazioni generali

Nato il	06 Novembre 1964
Città natale	Modena
Cittadinanza	italiana
Residenza	Verona

Lingue conosciute

Italiano	Madre lingua
Inglese	Fluente scritto e orale
Francese	Fluente scritto e orale

Formazione

1990–1993	Dottorato di Ricerca in Informatica presso l'Università degli Studi di Pisa. Tesi: <i>Semantic aspects of logic program analysis</i> , relatore Prof. Giorgio Levi.
1983–1988	Laurea in Scienze dell'Informazione 110/110, presso l'Università degli Studi di Pisa. Relatore: Prof. Giorgio Levi.
1979–1983	Maturità Scientifica 60/60, presso Liceo Scientifico Statale A. Sorelli di Pavullo nel Frignano (Modena).

Posizioni ricoperte

2000–oggi	<i>Professore Ordinario</i> di Informatica, SSD INF/01 (01/B1), presso il Dipartimento di Informatica dell'Università degli Studi di Verona.
1998–2000	Vincitore del Concorso Nazionale per <i>Professore Associato</i> , SSD K05B - Informatica. È <i>Professore Associato</i> di Informatica, SSD K05B presso la Facoltà di Scienze Matematiche Fisiche e Naturali (MM.FF.NN.) dell'Università degli Studi di Verona e componente del Dipartimento Scientifico e Tecnologico della stessa università.
1995–1998	<i>Ricercatore Universitario a tempo indeterminato</i> presso il Dipartimento di Informatica dell'Università degli Studi di Pisa.
1993–1995	<i>Post doctoral fellowship</i> nell'ambito del programma <i>Human Capital and Mobility</i> (individual fellowship) della Comunità Europea, 5thFP presso il Laboratoire d'Informatique (LIX) dell'École Polytechnique, France.
1988–1990	Servizio militare presso l'Ufficio Addestramento e Studi dell'Accademia Militare di Modena e <i>assistente esercitante</i> di <i>Calcolo Numerico e Teoria ed Applicazione delle Macchine Calcolatrici</i> per il 170 e 171 esimo Corso Allievi Ufficiali.

Ricerca scientifica

I principali interessi di ricerca riguardano l'analisi e la verifica di programmi e sistemi Software mediante interpretazione astratta e metodi formali. Gli ambiti applicativi riguardano: l'analisi statica di programmi, la trasformazione del codice, la sicurezza di sistemi software, l'analisi e la sintesi di malware e la protezione del software mediante offuscamento, watermarking, tamper-proofing. È autore di oltre 100 pubblicazioni su riviste ed atti di congressi internazionali con revisione (e.g., si veda [DBLP](#)). La lista delle principali pubblicazioni scientifiche è in appendice.

Premi

È vincitore del *Microsoft Research Software Engineering Innovation Foundation (SEIF) Award 2013* sul tema dell'analisi di SW automodificante.

Progetti di ricerca dal 2000, valorizzazione industriale e promozione culturale

1999–2001	Coordinatore nazionale di un progetto biennale PRIN MIUR COFIN1999. Budget 200.385€. Titolo: <i>Automatic Program certification by Abstract Interpretation</i> . Partners: Università di Verona (National Coordinator), Università di Parma, Università di Pisa, Università di Udine, e Università di Venezia.
2000–2002	Coordinatore locale di un progetto PRIN MIUR COFIN2000. Budget assegnato a Verona: 26.339€, titolo: <i>Abstract Interpretation, types, systems and control-flow analysis</i> . Coordinatore scientifico nazionale Prof. Giorgio Levi, Università di Pisa.
2000–2003	Coordinatore di un progetto di <i>co-tutored Ph.D.</i> in <i>Logic and formal methods in Computer Science</i> . Partners internazionali: Université de Paris XII, Université de Rennes I, Universidade Federal de Pernambuco, Recife (Brasil), University of Havana (Cuba), University of London, Queen Mary and Westfield College, Université de Bordeaux. Budget: 124.983€.
2002–2004	Coordinatore locale di un progetto biennale PRIN MIUR COFIN2002. Budget assegnato all'unità di Verona: 40.000€, titolo: <i>CoVer: Constraint-based Verification of Reactive systems</i> . Coordinatore nazionale Prof. Maurizio Gabbrielli, Università di Bologna.
2002–2003	Coordinatore di un progetto CRUI-VIGONI bilaterale tra la Università di Verona ed il Max Plank Institute - Saarbrücken. Titolo: <i>Abstract interpretation and predicate abstraction</i> . Budget 6000€.
2002–2005	Coordinatore di un progetto MIUR-FIRB: <i>SPY-Mod Abstract Interpretation and model checking in the automatic verification of embedded systems (code RBAU018RCZ_003)</i> . Budget assegnato: 82.000€.
2003–2005	Coordinatore di un progetto Marie Curie code n. MCFI-2002-00183, su <i>Property driven design of static program analysis</i> . Budget: 123.712€.
2004–2006	Coordinatore nazionale di un progetto biennale PRIN MIUR COFIN2004. Budget totale: 244.600€. Titolo: <i>AIDA - Abstract Interpretation design and Applications</i> , partners: Università di Verona (Coordinatore nazionale), Università di Parma, Università di Pisa, Università di Udine, Università di Venezia, e Università di Bologna.
2006–2010	Coordinatore di un progetto INTERLINK <i>InterAbstract - Verification and Security by Abstract Interpretation</i> . Partners: l'École Normale Supérieure, University of Arizona, CNRS IRISA in Rennes, Max Plank Institute MPI in Saarbrücken, ed École Polytechnique, Parigi. Budget: 53.000€.

2008–2010	Coordinatore locale di un progetto biennale PRIN MIUR COFIN2007. Budget: 160.000€, Titolo: <i>AIDA2 - Abstract Interpretation design and Applications</i> , partners: Università di Verona, Università di Parma, e Università di Padova (Coordinatore nazionale).
2009–2011	Coordinatore scientifico di un progetto regionale VITA consortium, titolo: <i>ShadowCode: Code obfuscation for Java Bytecode</i> . Budget: 150.000€.
2010–oggi	È fondatore, insieme a Fausto Spoto (Professore Associato dell'Università di Verona) di JULIA s.r.l., spin-off della Università di Verona per la commercializzazione e lo sviluppo industriale di un analizzatore statico per la verifica di codice Java, JavaBytecode e Android basato su interpretazione astratta: http://juliasoft.com . Ricopre il ruolo di responsabile scientifico, è socio e componente del Consiglio di Amministrazione di Julia s.r.l.
2012	Julia s.r.l., vince il premio per <i>Talento delle Idee</i> di Unicredit Bank ed è selezionata tra i 9 migliori progetti innovativi in area ICT nel Working Capital Competition di Telecom Italia.
2012–oggi	Partecipa come JULIA s.r.l., <i>sub-contractor</i> di University of Washington, in un progetto U.S. Air Force Research Laboratory/RITM Contract No. FA8750-12-C-0174, Budget: \$291,000.00, per la verifica di sistemi Java e Android in ambito militare.
2012–oggi	Fondatore della Digital Asset Protection Association (DAPA), fondata a Tucson Arizona (US) nel Dicembre 2011. DAPA è una associazione no-profit dedicata alla promozione ed allo sviluppo della cultura e della tecnologia legata alla protezione di <i>privacy</i> ed <i>integrity</i> di patrimoni digitali quali files (es., musica, video), chiavi e software. Le istituzioni fondanti DAPA sono: University of Virginia, University of Arizona, Università di Verona, IRDETO e ARXAN. DAPA è lo sponsor principale di eventi internazionali nel campo della sicurezza e protezione del SW quali: <i>Int. Summer School of Information Security and Protection ISSISP'10-'18</i> e <i>ACM SIGPLAN Software Security and Protection Workshop SSP'11-'17</i> .
2018–2021	Coordinatore del progetto Cyberspace Surveillance Technologies (ATEN) di Fondazione Cariverona. Grant 413.000€.

Responsabilità istituzionali e di valutazione

2018–oggi	Direttore del Dipartimento di Informatica della Università di Verona.
2013-2014	Componente del Consiglio di Amministrazione della Università di Verona.
2012-2014	Presidente della Commissione Nazionale per la Abilitazione Scientifica Disciplinare in Informatica.
2012–oggi	Componente del Board di valutazione per progetti PON del MIUR: Programma Operativo Nazionale Ricerca & Competitività (PON02 & PON03), budget: 150.000.000€.
2006-2012	Preside della Facoltà di Scienze Matematiche Fisiche e Naturali della Università Verona.
2005–oggi	Componente dell'evaluation committee di: EPSRC – Engineering and Physical Sciences Research Council (UK), the Israel Science Foundation (IL), the United States-Israel Binational Science Foundation (IL), the Estonian Science Foundation (EE), the Georgian's Shota Rustaveli National Science Foundation, and the Portuguese Fundação para a Ciência e a Tecnologia.
2004-2006	Presidente Commissione Ricerca della Università di Verona.
2004-2006	Componente del Nucleo di valutazione della Università di Verona.
2001-2004	Presidente della Commissione Didattica della Università di Verona.

Soggiorni all'estero

Sono considerati i soggiorni della durata di almeno 1 mese presso atenei ed istituti di ricerca internazionali.

1992	Visiting researcher al Department of Computer Science, The University of Arizona, USA Dicembre 1992.
1994	Visiting researcher al Department of Computer Science, Katholieke Universiteit Leuven, Leuven Belgique, Aprile-Maggio 1994.
1997	Visiting Professor al Department of Mathematics and Computer Science, Ben-Gurion University of Negev, Beer-Sheva, Israel. Ottobre & Novembre 1997.
1997	Visiting researcher al Department of Computer Science, The University of Melbourne Australia, Dicembre 1997.
1999	Visiting Professor al Department of Computer Science, KAIST – Korean Advanced Institute of Science and Technology, Taejon, South Korea, Giugno 1999.
2000	Visiting researcher al Laboratoire d'Informatique (LIX), École Polytechnique, Parigi, Giugno 2000.
2002	Visiting researcher al Laboratoire d'Informatique (LIX), École Polytechnique, Parigi, Giugno & Luglio 2002.
2006	Visiting researcher al Laboratoire d'Informatique (LIX), École Polytechnique, Parigi, Settembre 2006.
2008	Visiting Professor al Dept. d'Informatique (DI) della École Normale Supérieure, Parigi. Giugno-Agosto 2008.
2009	Visiting Professor al Computer Science Department della Universidad Complutense de Madrid (UCM). Maggio e Giugno 2009.
2010	Visiting Professor al Dept. d'Informatique (DI) della École Normale Supérieure, Parigi. Dicembre 2010.
2011	Visiting Professor al Dept. d'Informatique (DI) della École Normale Supérieure, Parigi. Maggio-Luglio 2011.
2014	Visiting Research Scientist at IRDETO Canada , working in white-box cryptography, software security and protection.
2014	Visiting Professor in CS at the department of Computer Science of the University of Louisiana at Lafayette USA.
2015	Visiting Prof. at the Department of Computing and Information Systems, University of Melbourne, Australia.
2015–2016	Sabbatical year as Senior Research Scientist at IMDEA Software Institute (Madrid, Spagna).

Relazioni invitate a conferenze internazionali dal 2000 ad oggi

- 2002 Titolo: Systematic design of complete abstractions: from semantics to program analysis via model-checking. *18th Workshop on the Mathematical Foundations of Programming Semantics MFPS XVIII*, Tulane University, New Orleans, LA USA. March 23 - March 26, 2002.
- 2008 Titolo: Transforming abstract interpretations by abstract interpretation. *15th Int. Static Analysis Symposium SAS'08*, Vol. 5079 of LNCS, pages 1-17, Springer-Verlag. Valencia, Spain, 16-18 July, 2008.
- 2008 Titolo: Hiding Information in Completeness Holes - New perspectives in code obfuscation and watermarking. *6th IEEE Int. Conferences on Software Engineering and Formal Methods, SEFM'08*, pages 7-20, IEEE Press. Cape Town (South Africa), 10-14 November 2008.
- 2010 Titolo: Abstract Interpretation-Based Protection. *11th Int. Conference on Verification, Model Checking, and Abstract Interpretation VMCAI 2010*, Madrid, Spain, January 17-19, 2010.
- 2010–2012 Titolo: Theory and practice of code attack: Static analysis, semantics and transformation. *1st, 2nd, e 3rd Int. Summer School on Information Security and Protection in Software Security and Protection*, Chinese Academy of Science, Beijing July 26-30, 2010; Gent July 4-8, 2011; Tucson AZ, May 20-25, 2012.
- 2012 Titolo: Algebraic Structures in Program Understanding: A Case Study in Program Protection. *11th Biennial IQSA Meeting Quantum Structures*, 23 - 27 July, Cagliari (Italy).
- 2012 Titolo: Calcolabile e non calcolabile, un omaggio ad Alan Turing, Camera dei Deputati – Nuova Aula dei Gruppi Parlamentari, in occasione dei 100 anni dalla nascita di Alan Turing.
- 2012 Titolo: Software Security by Obscurity - A Programming Language Perspective. *6th Int. Conference on Information Systems, Technology and Management*. Communications in Computer and Information Science 285, Springer Verlag, pp. 427-432, 2012. Grenoble, March 28-30, 2012.
- 2014 Obscuring Code - Unveiling and Veiling Information in Programs. *16th Int. Symp. on Principles and Practice of Declarative Programming (ACM PPDP 2014)* and *24th Int. Symp. on Logic-Based Program Synthesis and Transformation (LOPSTR 2014)*. Canterbury, UK., September 8-11, 2014.
- 2015 Analysing program analyses: A journey in (in)completeness. Workshop on Software Correctness and Reliability Oct. 2-3, 2015, ETH Zürich.
- 2015 Protecting Code by Obfuscation. *PROLE 2015 Spanish Conf. on Programming and Computer Languages*. Santander, Spet. 15-17.
- 2016 Guaranteed Security by Abstract Interpretation. DEF CON 24, Aug. 4-7 Las Vegas USA.
- 2017 Abstract Interpretation for Program Security. *24th Static Analysis Symposium*, August 30th - September 1st, 2017, New York City, NY, USA.

Attività di mentore

È stato relatore di tesi di Ph.D. presso Université de Paris VII, Università di Siena, Ben-Gurion University (IL), e Università di Padova. Gli allievi che si sono maggiormente distinti sono: Dr.ssa Francesca Scozzari (ora Ricercatrice presso la Università di Chieti-Pescara), Dr. Samir Genaim, (ora Assistant Professor presso la Universidad Complutense de Madrid), Prof. Francesco Ranzato (ora Professore Associato Università di Padova), Dr.ssa Isabella Mastroeni (ora Ricercatrice presso la Università di Verona), Dr. Damiano Zanardini (ora Assistant professor presso Universidad Politécnica de Madrid), Dr.ssa Mila Dalla Preda (ora Post-Doc presso il Dipartimento di Informatica della Università di Bologna), Dr. Giovanni Scardoni (ora Post-Doc presso il Dipartimento di Patologia, Università di Verona), e Dr. Enrico Visentini (ora presso Power Reply (Milano)).

Coordinamento scientifico di congressi internazionali e riviste

2002–oggi	È componente dello <i>Steering Committee</i> del <i>Static Analysis Symposium (SAS)</i> .
2004–2007	È componente dello <i>Steering Committee</i> del <i>Programming Language Interference and Dependence (PLID)</i> workshop.
2010–oggi	È componente dello <i>Steering Committee</i> dell' <i>Int. Conf. on Information Theory and Information Security (ICITIS)</i> e della <i>ACM annual Int. Summer School on Information Security and Protection</i> .
2012–2014	È componente dello <i>Steering Committee</i> del <i>Symposium on Principles of Programming Languages (POPL)</i> . POPL è annoverata tra le prime conferenze a livello internazionale in termini di impatto e prestigio in Computer Science (si veda Microsoft Academic), con oltre 40 anni di tradizione.
2004	Program Chair del <i>11th Int. Static Analysis Symposium (SAS'04)</i> Verona, Italy. August 2004.
2007	Editor of the Special Issue on the <i>11th Int. Static Analysis Symposium - SAS2004</i> in <i>Science of Computer Programming</i> Vol. 64, Issue 1, Pages 1-184 (1 January 2007).
2008	Chair del <i>30 Years of Abstract Interpretation (30YAI)</i> workshop in honor of Patrick Cousot, January 09, 2008, San Francisco USA.
2011	Editor of the Special Issue on the <i>3rd Int. Workshop on Programming Language Interference and Dependence - PLID 2007</i> , in <i>Mathematical Structures in Computer Science</i> Vol. 61, Issue 6, 2011.
2010–oggi	Editorial Board of the <i>Central European Journal of Computer Science</i> , published by Springer-Verlag.
2010–oggi	È accademico della <i>Accademia di Agricoltura Scienze e Lettere di Verona</i> .
2013	General Chair di <i>POPL2013 40th ACM SIGACT-SIGPLAN Symp. on Principles of Programming Languages</i> . Roma 23-25, 2013.
2013	Program Chair di <i>14th Int. Conf. on Verification, Model Checking, and Abstract Interpretation (VMCAI'13)</i> .

Principali pubblicazioni su rivista

- [1] R. Barbuti, R. Giacobazzi. A Bottom-up Polymorphic Type Inference in Logic Programming. *Science of Computer Programming*, 19(3):281–313, Elsevier Science Pub., Amsterdam Dicembre 1992. [DOI](#).
- [2] R. Barbuti, R. Giacobazzi, and G. Levi. A General Framework for Semantics-based Bottom-up Abstract Interpretation of Logic Programs. *ACM Transactions on Programming Languages and Systems*, 15(1):133–181, ACM Press, New York Gennaio 1993. [DOI](#).
- [3] R. Barbuti, M. Codish, R. Giacobazzi, and G. Levi. Modelling Prolog Control. *Journal of Logic and Computation*, 3(6):579–603, Oxford University Press, Oxford Dicembre 1993. ISSN 0955-792X. [DOI](#).
- [4] B.M. Chang, K.M. Choe, and R. Giacobazzi. Improving execution models of logic programs by two-phase abstract interpretation. *Journal of the Electronics and Telecommunications Research Institute (ETRI)*. 16(4):27-47, ETRI Taejon, Korea Gennaio 1995. ISSN 1225-6463.
- [5] R. Barbuti, M. Codish, R. Giacobazzi, and M. Maher. Oracle Semantics for PROLOG. *Information and Computation*, 122(2):178-200, Academic Press, Orlando FL Novembre 1995. ISSN 0890-5401. [DOI](#).
- [6] R. Giacobazzi, S. Debray, and G. Levi. Generalized Semantics and Abstract Interpretation for Constraint Logic Programs. *Journal of Logic Programming*, 25(3):191-248, Elsevier North-Holland, New York Dicembre 1995. ISSN 0743-1066. [DOI](#).

- [7] G. Filé, R. Giacobazzi, F. Ranzato. A Unifying View on Abstract Domain Design. C. Hankin, H.R. Nielson and P. Wegner editors, Computing Surveys Symposium on Models of Programming Languages and Computation. *ACM Computing Surveys*, 28(2):333-336, ACM Press, New York Giugno 1996. [DOI](#).
- [8] R. Giacobazzi, C. Palamidessi, F. Ranzato. Weak Relative Pseudo-Complements of Closure Operators. *Algebra Universalis*, 36(3):405-412, Birkhäuser, Basilea Dicembre 1996. [DOI](#).
- [9] A. Cortesi, G. Filé, R. Giacobazzi, C. Palamidessi, and F. Ranzato. Complementation in Abstract Interpretation. *ACM Transactions on Programming Languages and Systems*, 19(1):7-47, ACM Press, New York Gennaio 1997. [DOI](#).
- [10] E. Zaffanella, R. Giacobazzi, and G. Levi. Abstracting Synchronization in Concurrent Constraint Programming. *Journal of Functional and Logic Programming*, 1997(6), The MIT Press, Cambridge Mass. Novembre 1997. ISSN 1080-5230.
- [11] R. Giacobazzi and F. Ranzato. On the least complete extension of a complete subsemilattice. *Algebra Universalis* 38(3):235-237, Birkhäuser, Basilea 1997. ISSN 0002-5240. [DOI](#).
- [12] R. Giacobazzi. Abductive analysis of modular logic programs. *Journal of Logic and Computation*, 8(4):457-484, Oxford University Press, Oxford Agosto 1998. ISSN 0955-792X. [DOI](#).
- [13] R. Giacobazzi and F. Ranzato. Optimal domains for disjunctive abstract interpretation. *Science of Computer Programming*, 32(1-3):177-210, Elsevier Science Pub., Amsterdam Agosto 1998. ISSN 0167-6423. [DOI](#).
- [14] R. Giacobazzi and F. Ranzato. Uniform Closures: Order-theoretically reconstructing logic program semantics and abstract domain refinements. *Information and Computation*, 145(2):153-190, Academic Press, Orlando FL Settembre 1998. ISSN 0890-5401. [DOI](#).
- [15] R. Giacobazzi and F. Ranzato. Some properties of complete congruence lattices. *Algebra Universalis*, 40(2):189-200, Birkhäuser, Basilea 1998. ISSN 0002-5240. [DOI](#).
- [16] R. Giacobazzi and F. Scozzari. A logical model for relational abstract domains. *ACM Transactions on Programming Languages and Systems*, 20(5):1067-1109, ACM Press, New York Settembre 1998. ISSN 0164-0925. [DOI](#).
- [17] R. Giacobazzi and F. Ranzato. The reduced relative power operation on abstract domains. *Theoretical Computer Science*, 216(1-2):159-211, Elsevier Science Pub., Amsterdam Marzo 1999. ISSN 0304-3975. [DOI](#).
- [18] R. Giacobazzi, F. Ranzato, and F. Scozzari. Making abstract interpretations complete. *Journal of the ACM*, 47(2):361-416, 2000. ACM Press, New York. ISSN 0004-5411. [DOI](#).
- [19] R. Giacobazzi and I. Mastroeni. Non-standard semantics for program slicing. *Higher-Order and Symbolic Computation (formerly LISP and Symbolic Computation)*. 16(4):297-339. 2003. Kluwer Academic Publishers ISSN 1388-3690. [DOI](#).
- [20] R. Giacobazzi, F. Ranzato, and F. Scozzari. Making Abstract Domains Condensing. *ACM Transactions on Computational Logic (TOCL)*. 6(1):33-60. ACM Press, New York. 2005. ISSN 1529-3785. [DOI](#).
- [21] R. Giacobazzi and I. Mastroeni. Transforming semantics by abstract interpretation. *Theoretical Computer Science*. 337(1-3):1-50. 2005. ISSN 0304-3975. [DOI](#).
- [22] R. Giacobazzi and F. Ranzato. Incompleteness of States w.r.t. Traces in Model Checking. *Information and Computation*, 204(3):376-407, 2006. [DOI](#).
- [23] P. Cousot, R. Cousot and R. Giacobazzi. Abstract Interpretation of Resolution-Based Semantics. *Theoretical Computer Science*, 410(46):4724-4746, 2009. [DOI](#).

- [24] M. Dalla Preda and R. Giacobazzi. Semantic-based Code Obfuscation by Abstract Interpretation. *Journal of Computer Security*, 17(6):855-908, 2009. [DOI](#).
- [25] R. Giacobazzi and I. Mastroeni. A Proof System for Abstract Non-Interference. *Journal of Logic and Computation*, 20: 449-479. 2010. [DOI](#).
- [26] R. Giacobazzi and I. Mastroeni. Adjoining classified and unclassified information by abstract interpretation. *Journal of Computer Security*, 18(5):751-797. 2010. [DOI](#).
- [27] I. Mastroeni and R. Giacobazzi. An Abstract Interpretation-based Model for Safety Semantics. *Journal of Computer Mathematics* 88 (4): 665-694. March 2011. [DOI](#).
- [28] A. Fortunato, M. Passuello and R. Giacobazzi. Relock-based vulnerability in Windows 7. *Virus Bulletin*, pp.16-20, [VB August 2011](#). ISSN 1749-7027.
- [29] C. Collberg, J. Davidson, R. Giacobazzi, Y. Gu, A. Herzberg, and F. Wang. Towards Digital Asset Protection - Position paper. In *Expert Opinions of the IEEE Intelligent Systems*. 26(6):8-13, 2011. [DOI](#).
- [30] R. Giacobazzi and F. Ranzato. Correctness Kernels of Abstract Interpretations. *Information and Computation*, Volume 237, October 2014, Pages 187-203. [DOI](#).
- [31] M. Dalla Preda, R. Giacobazzi, and S. Debray. Unveiling Metamorphism by Abstract Interpretation of Code Properties. *Theoretical Computer Science*. Volume 577(27):74-97 2015. [DOI](#).
- [32] R. Giacobazzi and I. Mastroeni. Making abstract models complete. *Mathematical Structures in Computer Science* 26(4):658-701 2016. [DOI](#).
- [33] I. Mastroeni and R. Giacobazzi. Weakening additivity in adjoining closures. *Order* 33:503-516, Springer-Verlag 2016. [DOI](#).
- [34] R. Giacobazzi, I. Mastroeni, and M. Dalla Preda. Maximal incompleteness as obfuscation potency. *Formal Aspects of Computing* 29(1):3-31, Springer-Verlag, 2017. [DOI](#).
- [35] R. Giacobazzi and I. Mastroeni. Abstract Non-Interference: A unifying framework for weakening information-flow. *ACM Transactions on Privacy and Security (TOPS)*. Volume 21 Issue 2, Article No. 9, February 2018. [DOI](#).
- [36] R. Bruni, R. Giacobazzi, and R. Gori. Code Obfuscation Against Abstraction Refinement Attacks. *Formal Aspects of Computing*. (2018) 30:685-711. DOI 10.1007/s00165-018-0462-6. [DOI](#).
- [37] P. Cousot, R. Giacobazzi and F. Ranzato. A^2I : Abstract² Interpretation. *PACMPL* 3(*POPL*) 42:1-42:31, 2019. **Distinguished Paper award at POPL 2019**. [DOI](#).
- [38] R. Bruni, R. Giacobazzi, R. Gori, D. Pavlovic, I. Garcia. Abstract Extensionality: On the properties of incomplete abstract interpretations. *PACMPL* 4(*POPL*) 28:1-28:28, 2020. [DOI](#).

Congressi Internazionali

- [39] R. Giacobazzi and L. Ricci. Pipeline Optimizations in AND-Parallelism by Abstract Interpretation. In D. H. D. Warren and P. Szeredi, editors, *Proc. Seventh Int'l Conf. on Logic Programming (ICLP '90)*, Jerusalem IL, pages 291-305. The MIT Press, Cambridge Mass. 1990.
- [40] R. Barbuti, M. Codish, R. Giacobazzi, and G. Levi. Modelling Prolog Control. In *Proc. Nineteenth Annual ACM SIGACT/SIGPLAN Symposium on Principles of Programming Languages (POPL '92)*, Albuquerque NM, pages 95-104. ACM Press, New York 1992. [DOI](#).

- [41] R. Giacobazzi and L. Ricci. Detecting Determinate Computations by a Bottom-up Abstract Interpretation. In B. Krieg-Brückner, editor, *Proc. European Symposium on Programming (ESOP '92), Rennes F*, volume 582 of Lecture Notes in Computer Science, pages 167–181. Springer-Verlag, Berlin 1992. [DOI](#).
- [42] R. Giacobazzi, S. Debray, and G. Levi. A Generalized Semantics for Constraint Logic Programs. In *Proceedings of the International Conference on Fifth Generation Computer Systems 1992 (FGCS '92), Tokyo*, pages 581–591. ICOT, Tokyo 1992.
- [43] R. Barbuti, M. Codish, R. Giacobazzi, and M. Maher. Oracle Semantics for PROLOG. In H. Kirchner and G. Levi, editors, *Algebraic and Logic Programming, Proceedings of the Third International Conference (ALP '92), Volterra I*, volume 632 of Lecture Notes in Computer Science, pages 100–114. Springer-Verlag, Berlin 1992. [DOI](#).
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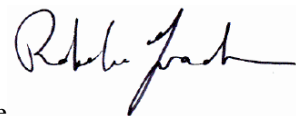
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Verona, 01/10/2018

In fede



Ai sensi e per gli effetti del DPR 445/2000, essendo consapevole delle conseguenze civili e penali per coloro che rilasciano dichiarazioni false o mendaci, sotto la mia responsabilità, dichiaro che quanto sopra esposto è veritiero. Ai sensi e per gli effetti del D.Lgs. 196/2003, acconsento che i dati personali sopra forniti siano trattati per le finalità per cui sono stati resi.