

Michele Bugliesi

CURRICULUM VITÆ

Settembre 2015

bugliesi@unive.it
FAX: +39 041 2348419
PHONE: +39 041 2348437

UNIVERSITÀ CA' FOSCARI, VENEZIA
VIA TORINO 155
30172 VENEZIA - MESTRE, ITALY

Profilo di ricerca

Professore Ordinario di Informatica.

Analisi statica – Verifica di Programmi – Sicurezza – Sistemi Distribuiti.

Carriera Accademica

Professore Ordinario Dipartimento di Scienze Ambientali, Informatica e Statistica Università Ca' Foscari.	11/2006	–	oggi
Professore Associato Dipartimento di Informatica, Università Ca' Foscari.	9/2000	–	11/2006
Ricercatore Dipartimento di Informatica, Università Ca' Foscari.	11/1998	–	8/2000
Ricercatore Dip. Matematica Pura ed Applicata, Università di Padova.	12/1991	–	10/1998

Incarichi in organi di gestione

Università Ca' Foscari Venezia Rettore, Presidente del Consiglio di Amministrazione	Ott. 2014	–	oggi
Fondazione Giorgio Cini Membro del Consiglio Generale	Ott. 2014	–	oggi
Ciset – Centro Internazionale di Studi sull'Economia Turistica Presidente del Consiglio di Amministrazione	Ott. 2014	–	oggi
VIU – Venice International University Membro del Board of Directors	Ott. 2014	–	oggi
Fondazione UNIVENETO Membro del Consiglio di Amministrazione	Ott. 2014	–	oggi
Fondazione COIN Membro del Consiglio di Amministrazione	Ott. 2014	–	oggi
Fondazione Ca' Foscari Presidente del Consiglio di Amministrazione	Ott. 2014	–	oggi
Associazione Venezia Città Metropolitana Presidente del Comitato Scientifico	Feb 2015	–	oggi
Associazione Treviso Smart Community Membro del Comitato di Gestione	Giu. 2014	–	oggi

Esperienze e incarichi nel settore privato

Digitalviews s.r.l. Venezia Co-fondatore	2011	–	oggi
Nesting. S.c.a.r.l. Membro del Comitato Scientifico	2010	–	2012
DS Logics, s.r.l. Bologna. Co-fondatore	1990	–	1998
DS Logics, s.r.l. Bologna. Senior Software Engineer	6/1990	–	5/ 1992
ENIDATA S.p.A. / ARS S.p.A. Bologna. Software Engineer	11/1987	–	6/1990

Esperienze didattiche e di ricerca internazionali

Visiting Scientist Laboratoire PPS, Université Paris VII, Paris, France	6/2007	–	7/2007
Visiting Scientist University of Sussex, Department of Computer Science, Brighton.	7/2004	–	8/2004
Invited Professor École Normale Supérieure, Dépt. d'Informatique, Paris, France	2/2000	–	2/2000
Visting Lecturer Dept. of Computer Science, Boston University, MA, USA	1/1999	–	5/1999

Titoli di studio

Université Paris VII Didier-Diderot Doctorat en Informatique.	2003
Purdue University MSc in Computer Science.	1992
Università di Pisa Laurea in Scienze dell'Informazione.	1987

Premi e riconoscimenti

- * Membro dell'Istituto Veneto di Scienze, Lettere e Arti (2015)
- * Premio per il *EATCS Best Theory Paper* alla *European Joint Conferences on Theory and Practice of Software (ETAPS 2013)*.
- * Vincitore della Borsa *Fullbright* per studiare a Purdue University, USA.

Interessi di ricerca

- * 2001 – oggi: *Sicurezza nei sistemi distribuiti* Verifica delle proprietà di sicurezza in sistemi distribuiti basata su tecniche delle algebre di processo e dei sistemi di tipo.
- * 2001 – oggi: *Protocolli Crittografici* Verifica formale dei protocolli di sicurezza mediante sistemi di tipo e equivalenze osservazionali.

- * *1996 – 2001: Fondamenti dei linguaggi Orientati agli oggetti* Teorie di tipo, sistemi di inferenze di tipo, e semantica per calcoli ad oggetti.
- * *1990 – 1996: Programmazione Logica.* Estensione della programmazione logica con costrutti per la modularità e la programmazione ad oggetti. Tecniche di valutazione parziale.

Attività Didattica

Corsi di Laurea Magistrale

- * Programmazione Funzionale. Laurea Magistrale in Informatica, Ca' Foscari. 1999 – 2010.
- * Compilatori Laurea Magistrale in Informatica, Ca' Foscari. 2008 – oggi.
- * Sistemi di Tipo per Linguaggi ad Oggetti. Dottorato in Matematica Computazionale e Informatica. Università di Padova. 1997.

Corsi di Laurea Triennale

- * Programmazione ad Oggetti. Laurea Triennale in Informatica, Laurea in Scienze dell'Informazione, Ca' Foscari. 2001 – 2008.
- * Metodologie di Programmazione Laurea Triennale in Informatica, Ca' Foscari. 2008 – oggi.
- * Algoritmi e Strutture Dati. Laurea Triennale in Informatica, Laurea in Scienze dell'Informazione, Ca' Foscari. 1998 – 2002.
- * Concepts of Programming Languages. College of Arts and Sciences. Boston. 1999.
- * Teoria e Applicazioni delle Macchine Calcolatrici. Laurea in Matematica. Università di Padova. 1992 – 1998.
- * Fondamenti dei Linguaggi di Programmazione. Laurea in Matematica. Università di Padova. 1996 – 1997.

Contratti e Proposte di Ricerca

- * *ADAPT – Accessible Data for Accessible Proto-Types in the Social Sector.* MIUR. Smart Cities. 2013 - 2015. Responsabile Scientifico per DAIS. (€ 350.000)
- * *Certificazione di sicurezza per applicazioni mobili e web* POR FESR 2007-2013. 2013. Responsabile Scientifico. (€ 24.000)
- * *Sicurezza e Privacy per piattaforme Mobile Enterprise 2.0.* POR FESR 2007-2013. 2012. Responsabile Scientifico. (€ 24.000).
- * *CINA – Compositionality, Interaction, Negotiation, Autonomicity.* MIUR. PRIN 2010-11. Responsabile di Unità. (€ 375.600 in totale)
- * *IPODS – Interacting Processes in Open-ended Distributed Systems.* MIUR. PRIN 2008. CO-PI, Responsabile di Unità. (€ 64.000 in totale)
- * *Analisi e Riingegnerizzazione di Codice “Legacy”* Regione Veneto. POR FESR 2007-2013. 2010. Responsabile Scientifico (€ 28.000).
- * *Logical Foundations of Distributed Systems and Mobile Code:* MIUR. PRIN 2005. Responsabile Scientifico Nazionale (€ 117.000 in totale)
- * *COMMA – Control Mechanisms in Mobile Ambients.* EPSRC Visiting Fellowship: June 1 - July 31, 2003. Responsabile Scientifico per Venezia. (8.000 Sterline inglesi)

- * *MYTHS – Models and Types for Security in Mobile Distributed Systems*. IST Project, FET Proactive Initiative “Global Computing”: Jan. 2002– Jan. 2005. Responsabile Scientifico di Unità. (€ 750.000 in totale)
- * *Static Analysis Techniques for Mobility and Security on Internet*. France-Italy Azione Integrata GALILEO 2000–2002. Responsabile Scientifico locale (€ 6.000).

Supervisione di Studenti di Dottorato

- * Wilayat Khan. 2012 – oggi.
- * Stefano Calzavara, 2011 – 2013. *Static Verification and Enforcement of Authorization Policies*. (Attualmente Assegnista di Ricerca, Ca’ Foscari).
- * Giuseppe Maggiore. 2011 – 2013. *Casanova: a language for making games*. (Attualmente Lecturer, NHTV Univesità di Breda).
- * Alvisè Spanò, PhD. 2010 – 2013. *Information Extraction by Type Analysis*. (Attualmente Assegnista di Ricerca, Ca’ Foscari).
- * M-P. Perinato. MSc. 2013. *Development of a Privacy Preserving Li-feray Portal document synchronizer for Android*.
- * Paolo Modesti. PhD. 2009 – 2012. *Verified Security Protocol Modeling and Implementation with AnBx*. (Postoc, Università di Newcastle).
- * Marco Giunti. PhD. 2007. *Secure Implementations of Typed Channel Abstractions*. (Postdoc, Università di Lisbona).
- * Silvia Crafa, PhD. 2002. *Models and Types for Wide Area Computing: The calculus of Bored Ambients*. (Ricercatrice, Università di Padova).

Supervisione di Studenti di Laurea Magistrale (dal 2009)

- * M-P. Perinato. MSc. 2013. *Development of a Privacy Preserving Li-feray Portal document synchronizer for Android*.
- * E. Costa. MSc. 2013. *Differential Privacy and Trajectories*. 2013.
- * A. Frazza. MSc. 2013. *An Information Flow Type System for Android*.
- * Tobia Zambon. MSc. *Abstract interpretation in legacy COBOL code*. 2012.
- * Francesco Restifo. MSc. *LALR Parsing Techniques for COBOL*. 2010.
- * Giovanni Bernardi. MSc. *A Theory of Adaptable Contract-Based Service Composition*. 2009. (PhD Trinity College, Dublin).
- * L. Pino. MSc. *A Theory of compliance in web services choreographies*. 2009. (PhD. UCL, London).
- * Federico Ulliana. MSc. 2009. *A formal study for type system for XQuery Optimization*. (Postdoc, LIG Grenoble).

Supervisione di Assegnisti e Postdoc

- * Alvisè Spanò, 2013 – 2014
- * Stefano Calzavara, 2013 – 2014
- * Hamadou Sardaouna, 2011 – 2012.
- * Damiano Macedonio, 2006 – 2009
- * Dario Colazzo, 2003 – 2004
- * Silvia Crafa, 2003 – 2005

Seminari Invitati (*Keynote Lectures*)

- * *Client-side Protection in Web Security*. TRENDS 2014 – IFIP WG 1.8 on Concurrency Theory, Roma, Settembre 2014.

- * *Resource Logics for Type-Based Authorization in Distributed Systems* TGC'11, 6th International Symposium on Trustworthy Global Computing, Aachen, Agosto 2011,
- * *Security Abstractions and Intruder Models*. EXPRESS'08, 16th International Workshop on Expressiveness in Concurrency. Toronto, Agosto 2008.
- * *Typed Access Control in Untyped Contexts*. TGC'05, First International Symposium on Trustworthy Global Computing. Edinburgh, Aprile 2005.
- * *Type Based Security in Ambient Calculi*. Dagstuhl-Seminar on Language-Based Security, Ottobre 2003.
- * *Interpretations of Objects in Functional and Logic Languages*. AGP'99 Joint Conference on Declarative Programming, L'Aquila, Settembre 1999.
- * *Security by Typing in System of Mobile Agents*. FOSAD2002, International School on Foundations of Security Analysis and Design. Bertinoro, Settembre 2002.
- * *Calculi and Types for Mobility and Security*. EJC2002, Ecole Jeunes Chercheurs en Programmation, Rennes, Francia, Maggio 2002.
- * *Calculi and Types for Mobility and Security*. Invited EJC2001, Ecole Jeunes Chercheurs en Programmation, Cargese, Corsica, Giugno 2001.

Attività Editoriali

- * Membro dell'*Editorial Board* della rivista *ISRN Software Engineering*. (2011 – oggi).
- * *Guest Editor* della rivista *Logical Methods in Computer Science* (2006).

Presenza in Comitati di Direzione

- * Membro del Comitato Direttivo del Capitolo Italiano dell'Associazione EATCS. (2006 - 2011). Segretario all'interno del Comitato (2009-2011).
- * Membro dello *Steering Committee* dell'*International Workshop on Foundations of Object Oriented Languages*. (2005 – 2008).

Presenza in Comitati di Programma

- * **ESSOS** International Symposium on Engineering Secure Software and Systems. (2016)
- * **ECPE** International Symposium on Embedded & Cyber-Physical Environments. Program Committee Co-chair. (2015).
- * **CSF** 28th IEEE Computer Security Foundation Symposium. (2015)
- * **SAS** International Symposium on Abstract Interpretation. (2011, 2014)
- * **PLACES**, International Workshop on Programming Language Approaches to Concurrency and Communication-centric Software. (2014)
- * **COMPSAC** Annual IEEE International Computer Software and Applications Conference, Track Chair. (2009, 2011, 2012, 2013, 2014).
- * **WF-IoT**, IEEE World Forum on Internet of Things. (2014,2015)
- * **MFCS** International Symposium on Mathematical Foundations of Computer Science. (2012)

- * **PPDP** ACM International Symposium on Principles and Practice of Declarative Programming. (2010)
- * **ESOP** European Symposium on Programming (2006, 2009).
- * **FCS** International Workshop on Foundations of Computer Security (2004, 2009).
- * **MeCBIC** International Meeting on Membrane Computing and Biologically Inspired Process. (2008)
- * **DCM** International Workshop on Developments of Computational Models. (2007)
- * **EXPRESS** International Workshop on Expressiveness in Concurrency. (2005, 2006).
- * **ICTCS** Italian Conference on Theoretical Computer Science. (2005)
- * **FMOODS** IFIP International Conference on Formal Methods for Open Object-based Distributed Systems (2003, 2005).
- * **FOSSACS** International Conference on Foundations of Software Science and Computation Structures. (2005)
- * **CSFW**, 16th IEEE Computer Security Foundation Workshop. (2003)
- * **EUROWEB**, The Web in Public Administration. (2001)
- * **FOOL**, International Workshop on Foundations of Object Oriented Languages. (2001)
- * **CL**, International Conference on Computational Logic. (2000)
- * **AGP** Joint Conference on Declarative Programming (1999, 2000).

Valutazione di Tesi di Dottorato

- * Membro della Commissione per l'esame finale di Dottorato. Dottorato in Informatica, Università di Bologna. 2014.
- * *Towards a Safe and Secure Synchronous Language*. Pejman Attar, Doctorat d'Informatique, Université de Nice Sophia Antipolis. Francia. 2013
- * Membro della Commissione per l'esame finale di Dottorato. Dottorato in Informatica, Università di Pisa. 2006.
- * *Typing secure information flow: declassification and mobility*. Ana Matos, Doctorat d'Informatique, École des Mines de Paris, Francia. 2006.
- * *Semantic Approaches to Global Computing Systems*. Daniele Gorla, Dottorato in Informatica. Università di Firenze 2005 (revisore).
- * *'Types for Object-Oriented and Functional Programming Languages*. Silvia Likavec, Dottorato in Informatica, Università di Torino. 2005. (revisore)
- * *Abstract machines for mobility: theory and implementation*. Andrea Valente, Dottorato in Informatica, Università di Torino. 2003. (revisore).
- * *Applying Formal Methods to Programming Language Design and Implementation*. Giuseppe Milicia, Dept. of Computer Science, University of Aarhus, Danimarca. 2003. (revisore).

Organizzazione di Eventi

- * DHV Digital Humanities Venice Fall School. Ottobre. 2013.
- * ICALP International. Colloquium on Automata, Languages and Programming. General Chair. Giugno 2006.
- * WOOD Workshop on Object Oriented Developments. Aprile 2003, Aprile 2004.
- * SAS Sixth International Static Analysis Symposium. Giugno 1999.
- * WSA Third International Workshop on Static Analysis. Giugno 1993.

Attività come revisione per Riviste Internazionali

ACM Transactions on Programming Languages and Systems (TOPLAS). Journal of Functional Programming. Theoretical Computer Science. Science of Computer Programming. Journal of Computer Security, Journal of Functional Programming Journal of Functional and Logic Programming. IEEE Transactions on Information Forensics & Security.

Attività come Revisore per Conferenze Internazionali

ALP: Int. Conference on Algebraic and Logic Programming. PLILP: Int. Symposium on Programming Languages Implementation on Logic Programming. SAS: Static Analysis Symposium. ECOOP: European Conference on Object-Oriented Programming. ILPS: International Symposium on Logic Programming. JICSLP: Joint International Conference and Symposium on Logic Programming. ESOP: European Symposium on Programming. TLCA: International Conference on Typed Lambda Calculi. LICS: International Symposium on Logic in Computer Science. FCT: International Symposium on Fundamentals of Computation Theory. SAS: International Static Analysis Symposium. FM: Formal Methods. PPDP: Principles and Practice of Declarative Programming. CSFW: Computer Security Foundation Workshop. ICFP: International Conference on Functional Programming. CONCUR: International Conference on the Theory of Concurrency FOSSACS: Foundations of Software Sciences and Computation Structures.

Attività come Revisore per Agenzie di Finanziamento

- * MIUR Revisore per progetti PRIN. 2009.
- * MIUR Revisore per la valutazione CIVR. 2003.

Commissioni di Concorso

- * Membro della Commissione per il Concorso per 1 posto da Ricercatore Universitario (SSD INF/01 – INFORMATICA). Università Ca'Foscari Venezia. 2013.
- * Membro della Commissione per il Concorso per 1 posto da Ricercatore Universitario (SSD INF/01 – INFORMATICA). Università Ca'Foscari Venezia. 2011.
- * Presidente della Commissione per l'Esame di Stato per l'Ammissione all'Albo degli Ingegneri. Università Ca' Foscari Venezia. 2007.
- * Membro della Commissione per il Concorso per 2 posti da Ricercatore Universitario (SSD INF/01 – INFORMATICA). Università di Napoli Federico II. 2006.

- * Membro della Commissione per il Concorso per 1 posto da Ricercatore Universitario (SSD K05B – INFORMATICA). Università di Genova. 2005.
- * Membro della Commissione per il Concorso per 1 posto da Ricercatore Universitario (SSD K05B – INFORMATICA). Università di Torino. 2000.

Incarichi Accademici in Ateneo

- * Rettore, Università Ca' Foscari Venezia. 2014 – oggi.
- * Direttore del Dipartimento di Scienze Ambientali, Informatica e Statistica (DAIS) 2011 – 2014.
- * Direttore del Dipartimento di Informatica. 2009 – 2010.
- * Membro del Senato Accademico. 2006 – 2009. 2012 – 2014.
- * Rappresentante della Facoltà di Scienza MM. FF. NN. nel Consiglio Direttivo della Biblioteca di Area Scientifica. 2006 – 2009.
- * Membro del Consiglio Direttivo del Centro Servizi Informatici e di Telecomunicazioni di Ateneo (C.S.I.T.A.). 2006 – 2010.
- * Membro del Comitato Tecnico spin-off. 2007 – 2009.
- * Membro del Comitato Tecnico Brevetti. 2007 – 2009.
- * Direttore Unità Consorzio C.I.N.I. 2006 – 2009.
- * Membro della Giunta della Facoltà di Scienze MM.FF.NN. 2006 – 2010.
- * Membro della Commissione Valutazione della Facoltà di Scienze. All'interno della commissione, principale estensore del *Modello di valutazione delle Macro-aree di Facoltà*.
- * Vice Direttore di Dipartimento. Dipartimento di Informatica 2003 – 2006.
- * Vice-Presidente del Collegio Didattico in Informatica. 2007–2009.
- * Membro del Collegio Didattico in Informatica. 2002 – 2007.
- * Membro del Collegio di Dottorato in Informatica. 2002 – oggi.

Pubblicazioni

Riviste Internazionali

- [1] Michele Bugliesi, Stefano Calzavara, Fabienne Eigner, and Matteo Maffei. Affine Refinement Types for Secure Distributed Programming. *ACM Transactions on Programming Languages and Systems (TOPLAS)*, 37(4), 2015. Revised and extended version of [32].
- [2] Stefano Calzavara, Gabriele Tolomei, Andrea Casini, Michele Bugliesi, and Salvatore Orlando. A supervised learning approach to protect client authentication on the web. *TWEB*, 9(3):15, 2015.
- [3] Michele Bugliesi, Stefano Calzavara, Riccardo Focardi, and Wilayat Khan. Cookiext: Patching the browser against session hijacking. *Journal of Computer Security*, xx(xx):xx, 2015. To appear.
- [4] M. Bugliesi, A. Marin, and S. Rossi. Model Checking Adaptive Service Compositions. *Science of Computer Programming*, pages 289–306, 2014. Revised and extended version of [46].
- [5] Michele Bugliesi, Lucia Gallina, Andrea Marin, Sabina Rossi, and Sardaouna Hamadou. Behavioral equivalences and interference metrics for mobile ad-hoc networks. *Performance Evaluation*, 73:41–72, 2014. Revised and extended version of [39].
- [6] M. Bugliesi and V. Sassone. Selected Papers of the Conference International Colloquium on Automata, Languages and Programming 2006. *Logical Methods in Computer Science*, 2010. Editorial.
- [7] M. Bugliesi and R. Focardi. Channel abstractions for network security. *Mathematical Structures in Computer Science*, 20(1):3–44, 2010. Revised and extended version of [48] and [47].
- [8] M. Bugliesi, D. Colazzo, S. Crafa, and D. Macedonio. A type system for discretionary access control. *Mathematical Structures in Computer Science*, 19:839–875, 2009. Revised and extended version of [53].
- [9] F. Barbanera, M. Bugliesi, M. Dezani-Ciancaglini, and V. Sassone. Space-Aware Ambients and Processes. *Theor. Comput. Sci.*, 373(1-2):41–69, 2007. Revised and extended version of [59].
- [10] M. Bugliesi, R. Focardi, and M. Maffei. Dynamic Types for Authentication. *Journal of Computer Security*, 15(6):563–617, 2007. Revised and extended version of [54].
- [11] M. Bugliesi and S. Rossi. Non Interference Proof Techniques for the Analysis of Cryptographic Protocols. *Journal of Computer Security*, 13(1):87 – 113, 2005. Revised and extended version of [56].
- [12] M. Bugliesi, S. Crafa, M. Merro, and V. Sassone. Communication and Mobility Control in Boxed Ambients. *Information and Computation*, 202(1):39 – 86, 2005. Revised and extended version of [61].
- [13] M. Bugliesi, G. Castagna, and S. Crafa. Access Control for Mobile Agents: the Calculus of Boxed Ambients. *ACM Transactions on Programming Languages and Systems (TOPLAS)*, 26(1):57 – 124, 2004. Revised and extended version of [64] and [66].
- [14] M. Bugliesi and G. Castagna. Behavioral Typing for Safe Ambients. *Computer Languages*, 28(1):61–99, 2002. Revised and extended version of [65].

- [15] V. Bono, M. Bugliesi, and S. Crafa. Typed Interpretations of Extensible Objects. *ACM Transactions on Computational Logic (TOCL)*, 3(4):562–603, 2002. Revised and extended version of [71].
- [16] M. Bugliesi and S. Pericas-G. Type Inference for Variant Object Types. *Information and Computation*, 177(1):2–27, 2002. Revised and extended version of [70].
- [17] M. Bugliesi, G. Delzanno, L. Liquori, and M. Martelli. Object Calculi in Linear Logic. *Journal of Logic and Computation*, 10(1):75–104, 2000. Revised and extended version of [76].
- [18] V. Bono and M. Bugliesi. Matching for the Lambda Calculus of Objects. *Theoretical Computer Science*, 212(1-2):101–140, 1999. Revised and extended version of [73].
- [19] V. Bono, Bugliesi M., L. Liquori, and M. Dezani-Ciancaglini. A Subtyping for Extensible. Incomplete Objects. *Fundamenta Informaticae*, 38(4):325–364, 1999. Revised and extended version of [74].
- [20] M. Bugliesi, A. Ciampolini, E. Lamma, and P. Mello. Optimizing Modular Logic Language. *ACM Computing Surveys*, 30(3):10–15, 1998.
- [21] A. Bossi, M. Bugliesi, M. Gabbriellini, M.C. Meo, and G. Levi. Differential Logic Programming: Programming Methodologies and Semantics. *Science of Computer Programming*, 27(3):217–262, 1996. Revised and extended version of [79].
- [22] M. Bugliesi, E. Lamma, and P. Mello. Modularity in Logic Programming. *Journal of Logic Programming*, (19,20):443–502, 1994.
- [23] M. Bugliesi, E. Lamma, and P. Mello. Partial Deduction for Structured Logic Programming. *Journal of Logic Programming*, 16:89–122, 1993. Revised and extended version of [86].

Atti di Conferenze Internazionali con Revisione

- [24] Stefano Calzavara, Michele Bugliesi, Silvia Crafa, and Enrico Steffanlongo. Fine-grained detection of privilege escalation attacks on browser extensions. In *Programming Languages and Systems - 24th European Symposium on Programming, ESOP 2015 Proceedings*, volume 9032 of *Lecture Notes in Computer Science*, pages 510–534. Springer, 2015.
- [25] Stefano Calzavara, Alvisio Rabitti, and Michele Bugliesi. Formal verification of liferay rbac. In *International Symposium on Engineering Secure Software and Systems (ESSOS 2015)*, volume 8978 of *Lecture Notes in Computer Science*, pages 1 – 16. Springer, 2015.
- [26] Stefano Calzavara, Alvisio Rabitti, and Michele Bugliesi. Compositional typed analysis of ARBAC policies. In *IEEE 28th Computer Security Foundations Symposium, CSF 2015*, pages 33–45. IEEE, 2015.
- [27] Wilayat Khan, Stefano Calzavara, Michele Bugliesi, W. De Groef, and Frank Piessens. Client side web session integrity as a non-interference property. In *International Conference on Information and System Security (ICISS 2014)*, volume 8880 of *Lecture Notes in Computer Science*, pages 89–108. Springer, 2014.
- [28] Michele Bugliesi, Stefano Calzavara, Riccardo Focardi, Wilayat Khan, and Mauro Tempesta. Provably sound browser-based enforcement of web session integrity. In *27th IEEE Computer Security Foundations Symposium (CSF2014)*. IEEE, 2014.

- [29] Stefano Calzavara, Gabriele Tolomei, Michele Bugliesi, and Salvatore Orlando. Quite a mess in my cookie jar! leveraging machine learning to protect web authentication. In *23rd International World Wide Web Conference (WWW 2014)*, pages 189–200. ACM, 2014.
- [30] Michele Bugliesi, Stefano Calzavara, Riccardo Focardi, and Wilayat Khan. Automatic and robust client-side protection for cookie-based sessions. In *International Symposium on Engineering Secure Software and Systems (ESSOS 2014)*, volume 8364 of *Lecture Notes in Computer Science*, pages 161 – 178. Springer, 2014.
- [31] Michele Bugliesi, Stefano Calzavara, and Alvise Spanò. Lintent: Towards security type-checking of android applications. In *Formal Techniques for Distributed Systems - Joint IFIP WG 6.1 International Conference, FMOODS/FORTE 2013, Florence, Italy, June 3-5, 2013. Proceedings*, volume 7892 of *Lecture Notes in Computer Science*, pages 289–304. Springer, 2013.
- [32] Michele Bugliesi, Stefano Calzavara, Fabienne Eigner, and Matteo Maffei. Logical foundations of secure resource management. In *International Conference of Principles of Security and Trust (POST 2013)*, volume 7796 of *Lecture Notes in Computer Science*, pages 105–125. Springer, 2013.
- [33] Michele Bugliesi, Stefano Calzavara, Fabienne Eigner, and Matteo Maffei. Affine refinement types for authentication and authorization. In *Trustworthy Global Computing - 7th International Symposium, TGC 2012, Newcastle upon Tyne, UK, September 7-8, 2012, Revised Selected Papers*, volume 8191 of *Lecture Notes in Computer Science*, pages 19–33. Springer, 2013.
- [34] Giuseppe Maggiore, Alvise Spanò, Renzo Orsini, Michele Bugliesi, Mohamed Abbadi, and Enrico Steffnlongo. A formal specification for casanova, a language for computer games. In *ACM SIGCHI Symposium on Engineering Interactive Computing Systems, EICS'12, Copenhagen, Denmark - June 25 - 28, 2012*, pages 287–292. ACM, 2012.
- [35] Michele Bugliesi, Stefano Calzavara, Riccardo Focardi, and Marco Squarcina. Gran: Model checking grsecurity rbac policies. In *25th IEEE Computer Security Foundations Symposium, CSF 2012, Cambridge, MA, USA, June 25-27, 2012*, pages 126–138. IEEE, 2012.
- [36] Giuseppe Maggiore, Pieter Spronck, Renzo Orsini, Michele Bugliesi, Enrico Steffnlongo, and Mohamed Abbadi. Writing real-time .net games in casanova. In *Entertainment Computing - ICEC 2012 - 11th International Conference, ICEC 2012, Bremen, Germany, September 26-29, 2012. Proceedings*, volume 7522 of *Lecture Notes in Computer Science*, pages 341–348. Springer, 2012.
- [37] Giuseppe Maggiore, Alvise Spanò, Renzo Orsini, Giulia Costantini, Michele Bugliesi, and Mohamed Abbadi. Designing casanova: A language for games. In *ACG - Advances in Computer Games - 13th International Conference, ACG 2011, Tilburg, The Netherlands, November 20-22, 2011, Revised Selected Papers*, volume 7168 of *Lecture Notes in Computer Science*, pages 320–332. Springer-Verlag, 2012.
- [38] Giuseppe Maggiore, Fabio Pittarello, Michele Bugliesi, and Mohamed Abbadi. A compilation technique to increase x3d performance and safety. In *Proceedings of the ACM Symposium on Applied Computing, SAC 2012, Riva, Trento, Italy, March 26-30, 2012*, pages 969–974. ACM, 2012.
- [39] Michele Bugliesi, Lucia Gallina, Andrea Marin, Sabina Rossi, and Sardaouna Hamadou. Interference-sensitive preorders for manets. In *Ninth International Conference on Quantitative Evaluation of Systems, QEST 2012, London, United Kingdom, September 17-20, 2012*, pages 189–198. IEEE Computer Society, 2012.

- [40] Alvisè Spanò, Michele Bugliesi, and Agostino Cortesi. Type-flow analysis for legacy cobol code. In *ICSOF (2)*, pages 64–75. SciTePress, 2011.
- [41] M. Bugliesi, S. Calzavara, F. Eigner, and M. Maffei. Resource-aware authorization policies for statically typed cryptographic protocols. In *Proceedings of the 24th IEEE Computer Security Foundations Symposium, CSF 2011*, pages 83–98. IEEE Computer Society, 2011.
- [42] Giuseppe Maggiore, Alvisè Spanò, Renzo Orsini, Giulia Costantini, Michele Bugliesi, and Mohamed Abbadi. Designing casanova: A language for games. In *Advances in Computer Games - 13th International Conference, ACG 2011, Tilburg, The Netherlands, November 20-22, 2011, Revised Selected Papers*, volume 7168 of *Lecture Notes in Computer Science*, pages 320–332. Springer, 2011.
- [43] M. Bugliesi and P. Modesti. Abstractions for Distributed Protocol Design. In *ARSPA-WITS 2010*, volume 6186 of *Lecture Notes in Computer Science*, pages 164–184. Springer-Verlag, 2010.
- [44] M. Bugliesi, S. Calzavara, and D. Macedonio. Secrecy and Authenticity Types for Distributed Messaging. In *ARSPA-WITS 2010*, volume 6186 of *Lecture Notes in Computer Science*, pages 23–40. Springer-Verlag, 2010.
- [45] G. Bernardi, M. Bugliesi, D. Macedonio, and S. Rossi. A theory of adaptable contract-based service composition. In *10th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC/GLOBALCOMP'08)*, pages 327–334. IEEE Press, 2009.
- [46] G. Bernardi, M. Bugliesi, D. Macedonio, and S. Rossi. Compliance preorders for web services. In *WS-FM 2009*, volume 6194 of *Lecture Notes in Computer Science*, pages 76–91. Springer-Verlag, 2009.
- [47] M. Bugliesi and R. Focardi. Security abstractions and intruder models. In *SecCo & Express 2008*, number 242 in *ENTCS*, pages 99–112. Elsevier Science, 2009.
- [48] M. Bugliesi and R. Focardi. Language based secure communication. In *CSF 2008, Proceedings of the 21st IEEE Computer Security Foundations Symposium, Pittsburgh, Pennsylvania.*, pages 3–16. IEEE Computer Society, 2008.
- [49] M. Bugliesi and M. Giunti. Secure Implementations of Typed Channel Abstractions. In *POPL'07, ACM Symposium on Principles of Programming Languages*, pages 251–262. ACM Press, 2007.
- [50] M. Bugliesi, D. Macedonio, and S. Rossi. Static vs dynamic typing for access control in pi-calculus. In *ASIAN 2007. Computer and Network Security, 12th Asian Computing Science Conference*, volume 4846 of *Lecture Notes in Computer Science*, pages 282–296, 2007.
- [51] M. Bugliesi. Typed Access Control in Untyped Contexts. In *TGC'05 - Symposium on Trustworthy Global Computing*, number 3705 in *LNCS*, pages 19–32, 2005.
- [52] M. Bugliesi, R. Focardi, and M. Maffei. Analysis of Typed Analyses of Authentication Protocols. In *CSFW'05, IEEE Computer Security Foundation Workshop*, pages 112–125, 2005.
- [53] M. Bugliesi, D. Colazzo, and S. Crafa. Type Based Discretionary Access Control. In *CONCUR'04, Int. Conference on Concurrency Theory*, number 3170 in *LNCS*, pages 225–239, 2004.

- [54] R. Bugliesi, M. Focardi and M. Maffei. Authenticity by Tagging and Typing. In *FMSE'04, ACM Workshop on Formal Methods in Software Engineering*, 2004.
- [55] M. Bugliesi, R. Focardi, and M. Maffei. Compositional Analysis of Entity Authentication Protocols. In *ESOP'04, European Symposium on Programming*, number 2986 in *LNCS*, pages 140–154, 2004.
- [56] M. Bugliesi, A. Ceccato, and S. Rossi. Non Interference Proof Techniques for the Analysis of Cryptographic Protocols. In *WITS '03, Workshop on Issues in the Theory of Security. Electronic Proceedings*, 2003.
- [57] M. Bugliesi, Ceccato A., and Rossi S. Context-Sensitive Equivalences for Non-Interference based Protocol Analysis. In *FCT'03, International Symposium on Fundamentals of Computing*, number 2751 in *LNCS*, pages 364–375. Springer-Verlag, 2003.
- [58] M. Bugliesi, S. Crafa, Prelic A., and V. Sassone. Secrecy in Untrusted Networks. In *ICALP'03, Int. Colloquium on Automata Languages and Programming*, number 2719 in *LNCS*, pages 969–983. Springer-Verlag, 2003.
- [59] F. Barbanera, M. Bugliesi, M. Dezani-Ciancaglini, and V. Sassone. A Calculus of Bounded Capacities. In *ASIAN'03. Eighth Asian Computing Science Conference*, number 2896 in *LNCS*, pages 205–223, 2003.
- [60] M. Bugliesi, R. Focardi, and M. Maffei. Principles for Entity Authentication. In *PSI 2003, Perspectives of Systems Informatics, 5th International Andrei Ershov Memorial Conference*, number 2890 in *LNCS*, pages 294–306. Springer-Verlag, 2003.
- [61] M. Bugliesi, S. Crafa, M. Merro, and V. Sassone. Communication Interference in Mobile Boxed Ambients. In *FSTTCS'02, Int. Conf. on Foundations of Software Technology and Theoretical Computer Science*, number 2556 in *LNCS*, pages 71–84. Springer-Verlag, 2002.
- [62] S. Crafa, M. Bugliesi, and G. Castagna. Information Flow Security for Boxed Ambients. In *F-WAN, Int. Workshop on Foundations of Wide Area Networks*, number 66(3) in *ENTCS*. Elsevier Science, 2002.
- [63] M. Bugliesi, G. Castagna, and S. Crafa. Subtyping and Matching for Mobile Objects. In *ICTCS'01, Italian Conference on Theoretical Computer Science*, number 2202 in *LNCS*, pages 235–255. Springer-Verlag, 2001.
- [64] M. Bugliesi, G. Castagna, and S. Crafa. Boxed Ambients. In *TACS'01, Int. Conference on Theoretical Aspects of Computer Science*, number 2215 in *LNCS*, pages 38–63. Springer-Verlag, 2001.
- [65] M. Bugliesi and G. Castagna. Secure Safe Ambients. In *POPL'01, ACM Symposium on Principles of Programming Languages*, pages 222–235. ACM Press, 2001.
- [66] M. Bugliesi, G. Castagna, and S. Crafa. Reasoning about security in Mobile Ambients. In *CONCUR'01, Int. Conference on Concurrency Theory*, number 2154 in *LNCS*, pages 102–120. Springer-Verlag, 2001.
- [67] M. Bugliesi and G. Castagna. Secure Safe Ambients and JVM Security. In *WITS'00, Workshop on Issues in the Theory of Security Electronic Proceedings*, 2000.
- [68] M. Bugliesi and G. Castagna. Mobile Objects. In *FOOL'01, Int. Workshop on Foundations of Object Oriented Languages. Electronic Proceedings*, 2000.

- [69] M. Bugliesi, G. Castagna, and S. Crafa. Typed Mobile Objects. In *CONCUR2000, Int. Conference on Concurrency Theory*, number 1877 in *LNCS*, pages 504–520. Springer-Verlag, 2000.
- [70] M. Bugliesi and S. Pericas-G. Depth Subtyping and Type Inference for Object Calculi. In *FOOL'7, Int. Workshop on Foundations of Object Oriented Languages. Electronic Proceedings.*, 2000.
- [71] V. Bono and M. Bugliesi. Interpretations of Extensible Objects and Types. In *FCT'99, Int. Symposium on Fundamentals of Computing*, number 1684 in *LNCS*, pages 112–123. Springer-Verlag, 1999.
- [72] M. Bugliesi and S. Crafa. Object Calculi with Dynamic Messages. In *FOOL'6, Int. Workshop on Foundations of Object Oriented Languages. Electronic Proceedings.*, 1999.
- [73] V. Bono and M. Bugliesi. Subtyping Constraints for the Lambda Calculus of Objects. In *TLCA'97, Int. Conference on Typed Lambda Calculus and Applications*, number 1210 in *LNCS*, pages 46–62. Springer-Verlag, 1997.
- [74] V. Bono, M. Bugliesi, L. Liquori, and M. Dezani-Ciancaglini. Subtyping Constraints for Incomplete Objects. In *TAPSOFT'97, Int. Conference on Theory and Practice of Software Development*, number 1214 in *LNCS*, pages 465–477. Springer-Verlag, 1997.
- [75] V. Bono, M. Bugliesi, and L. Liquori. A Lambda Calculus of Incomplete Object. In *MFCS'96, Int. Conference on Mathematical Foundations of Computer Sciences*, number 1113 in *LNCS*, pages 218–229. Springer-Verlag, 1996.
- [76] M. Bugliesi, G. Delzanno, L. Liquori, and M. Martelli. A Linear Logic Calculus of Objects. In *JICSLP'96, Joint Int. Conference and Symposium on Logic Programming*, pages 67–81. MIT Press, 1996.
- [77] M. Bugliesi and H. M. Jamil. A Stable Model Semantics for Behavioral Inheritance in Deductive OO Languages. In *ICDT'95, Int. Conference on Database Theory*, number 893 in *LNCS*, pages 222–237. Springer-Verlag, 1995.
- [78] M. Bugliesi and H. M. Jamil. A Logic of Encapsulation for Deductive Object Oriented Languages. In *PLILP'94, Int. Symp. on Programming Language Implementation and Logic Programming*, number 844 in *LNCS*, pages 215–229. Springer-Verlag, 1994.
- [79] A. Bossi, M. Bugliesi, M. Gabbriellini, M.C. Meo, and G. Levi. Differential Logic Programming. In *POPL'93, ACM Symposium on Principles of Programming Languages*, pages 359–370. ACM Press, 1993.
- [80] M. Bugliesi. On the Semantics of Inheritance in Logic Programming: Compositionality and Full Abstraction. In *WELP'93, Int. Workshop on Extensions of Logic Programming*, number 660 in *Lecture Notes in Artificial Intelligence*, pages 205–215. Springer-Verlag, 1993.
- [81] M. Bugliesi and G. Nardiello. SelfLog: Language and Implementation. In *PLILP'93, Int. Symposium on Programming Language Implementation and Logic Programming*, number 714 in *LNCS*, pages 412–413. Springer-Verlag, 1993.
- [82] M. Bugliesi and G. Nardiello. An architecture for implementing inheritance in Logic Programming. In *ICLP'93 Post-conference Workshop on Concurrent, Distributed & Parallel Implementations of Logic Programming Systems*, 1993.
- [83] M. Bossi, A. Bugliesi and M. Fabris. A new Fixpoint Semantics for Prolog. In *ICLP'93, Int. Conference on Logic Programming*, pages 374–389. MIT Press, 1993.

- [84] M. Bugliesi. A Declarative View of Inheritance in Logic Programming. In *JICSLP'92, Joint Int. Conference and Symposium on Logic Programming*, pages 113–130. MIT Press, 1992.
- [85] C. Ruggieri and M. Bugliesi. OLP: Objects in Logic Programming. In *ILPS'91 Post-conference Workshop on Expert Systems, Artificial Intelligence and Software Engineering Applications*, 1991.
- [86] M. Bugliesi, E. Lamma, and P. Mello. Partial Evaluation for Hierarchies of Logic Theories. In *NACLP'90, North American Conf. on Logic Programming*, pages 359–376. MIT Press, 1990.
- [87] M. Bellia, M. Bugliesi, and M. E. Occhiuto. Combinatory Forms for Equational Programming: Instances, Unification e Narrowing. In *CAAP'90, Int. Colloquium on Trees in Algebra and Programming*, number 431 in *LNCS*, pages 42–56. Springer-Verlag, 1990.
- [88] M. Bugliesi and F. Russo. Partial Evaluation in Prolog: some Improvements about Cut. In *NACLP'89, North American Conf. on Logic Programming*, pages 645–660. MIT Press, 1989.

Edizione di Libri e Monografie

- [89] Michele Bugliesi, Bart Preneel, Vladimiro Sassone, and Ingo Wegener, editors. *Automata, Languages and Programming, 33rd International Colloquium, ICALP 2006, Venice, Italy, July 10-14, 2006, Proceedings, Part II*, volume 4052 of *Lecture Notes in Computer Science*. Springer, 2006.
- [90] Michele Bugliesi, Bart Preneel, Vladimiro Sassone, and Ingo Wegener, editors. *Automata, Languages and Programming, 33rd International Colloquium, ICALP 2006, Venice, Italy, July 10-14, 2006, Proceedings, Part I*, volume 4051 of *Lecture Notes in Computer Science*. Springer, 2006.
- [91] V. Bono and M. Bugliesi, editors. *WOOD2004: Workshop on Object-Oriented Developments, co-located with CONCUR'04. Electronic Proceedings.*, volume 138 of *ENTCS*. Elsevier Science, 2005.
- [92] V. Bono and M. Bugliesi, editors. *WOOD2003: Workshop on Object-Oriented Developments, co-located with ETAPS'03. Electronic Proceedings.*, volume 82 of *ENTCS*. Elsevier Science, 2003.

Capitoli di Libro

- [93] Alvise Spanò, Michele Bugliesi, and Agostino Cortesi. Typing legacy cobol code. In *Software and Data Technologies*, volume 303 of *Communications in Computer and Information Science*, pages 151–165. Springer, 2013.
- [94] M. Bugliesi, G. Castagna, S. Crafa, R. Focardi, and V. Sassone. Name-passing calculi and crypto-primitives: a survey. In *Foundations of Security Analysis and Design*, number 2946 in *LNCS*, pages 91–138. Springer-Verlag, 2002.
- [95] G. Castagna, M. Bugliesi, and S. Crafa. An overview of Boxed Ambients. In *TOSCA 2001 - Theory of Concurrency, Higher Order Languages and Types*, number 62 in *ENTCS*. Elsevier Science, 2001.
- [96] M. Bugliesi and G. Nardiello. SelfLog: Language and Implementation. In *Implementation of Logic Programming Systems*, pages 1–15. Kluwer Academy Publishers, 1994. Full version of the abstract appeared as [81].

Altre Pubblicazioni

- [97] Giuseppe Maggiore, Renzo Orsini, and Michele Bugliesi. On casanova and databases or the similarity between games and dbs. In *SEBD*, pages 271–276, 2012.
- [98] M. Bugliesi. Typed Calculi for Security in Distributed Systems with Mobility. PhD thesis, Université Paris 7, March 2003.
- [99] M. Bugliesi. Calculi and Types for Mobility and Security, June 2001. *Ecole Jeunes Chercheurs en Programmation* Cargese, Corsica. Course notes.
- [100] M. Bugliesi. Interpretations of Objects in Functional and Logic Languages, Sept. 1999. *AGP'99 Joint Conference on Declarative Programming*. (Slides).
- [101] M. Bugliesi. *Inheritance Systems in Logic Programming: Semantics and Implementation*. Master's thesis, Dept. of Computer Science, Purdue University, West-Lafayette IN, USA, May 1992.
- [102] M. Bugliesi, M. Cavalieri, E. Lamma, P. Mello, A. Natali, and F. Russo. Flexibility and Efficiency in a Prolog Programming Environment: Exploiting Meta-Programming and Partial Evaluation. In *ESPRIT'99, 5th ESPRIT Conference*, pages 749–768. North-Holland, 1988.