

Professor Vladimiro Sassone

Royal Academy of Engineering Research Chair in Cyber Security

Curriculum Vitae

Last Update: June 2016

Personal Details

Born in 1964, in Rome, Italy. Resident in Hampshire, England, UK. British citizenship. DV clearance.

Research Interests

My research interest are in *cyber security*, spanning over *trust*, *anonymity*, *privacy*, *cyber controls*, and the security of *clouds*, *industrial control systems* and the *internet of things*. In the past my research has focussed the *foundations of mobile*, *distributed systems*, and aimed at the development of robust, high-level paradigms for ubiquitous computing, web transactions and linked data. My scientific background include *semantics*, *type theory*, *logics*, *formal methods* and, in general, the *foundations of computer science*, with a major interest on concurrency.

Bibliometrics (as of 8.05.16)

Data source:	Google Scholar					
Results						
Papers:	304	Cites/paper:	10.65	h-index:	32	"v sassone"
Citations:	3239	Cites/author:	1293.27	g-index:	51	Query date: 2016-05-08
Years:	26	Papers/author:	166.28	hI,norm:	19	Papers: 304
Cites/year:	124.58	Authors/paper:	2.50	hI,annual:	0.73	Citations: 3239
						Years: 26
Cites	Per year	Rank	Authors	Title	Year	Pl
<input checked="" type="checkbox"/> h 261	17.40	1	M Nielsen, V Sassone...	Towards a notion of distributed time f...	2001	Ap
<input checked="" type="checkbox"/> h 257	19.77	21	M Carbone, M Nielse...	A formal model for trust in dynamic ne...	2003	BR
<input checked="" type="checkbox"/> h 115	5.75	2	V Sassone, M Nielsen...	Models for concurrency: Towards a cl...	1996	Th

Education

Università di Pisa, Pisa, Italy,

Laurea (MSc) in Computer Science, July 1990

I followed an MSc course in Computer Science and graduated 'cum laude' writing a thesis entitled 'Dynamic Bisimulation'.

Università di Pisa, Pisa, Italy,

PhD Computer Science, January 1994

I completed a PhD course under the supervision of Ugo Montanari. My graduation thesis is entitled 'On the Semantics of Petri Nets: Processes, Unfoldings and Infinite Computations'.

Employment History

Hewlett-Packard Laboratories, Pisa Science Center, Pisa, Italy,
Researcher, July 1990–December 1992

Hewlett-Packard Laboratories, Bristol, United Kingdom,
Visiting Researcher, July 1990–October 1990

SRI International, Menlo Park, California,
Visiting Researcher, November 1991–December 1991

University of Aarhus, Aarhus, Denmark,
Visiting PhD student, March 1992–August 1992

Human Capital and Mobility, European Union,

Researcher, June 1994–January 1996

I won the European Union '*Human Capital and Mobility*' grant ERBCHBGCT920005 for employment at the Computer Science Department of the University of Aarhus.

BRICS – Computer Science Department, University of Aarhus, Aarhus, Denmark,

Associate Researcher, June 1994–January 1996

During my stay in Aarhus I was associate researcher at **BRICS**, Basic Research in Computer Science, Centre of the Danish National Research Foundation.

Università di Pisa, Pisa, Italy,

Assistant Professor, May 1995–

In November 1994 I ranked first in a competition for a permanent position at Dipartimento di Informatica – Università di Pisa. My official employment started in May 1995.

BRICS – Computer Science Department, University of Aarhus, Aarhus, Denmark,

Visiting Summer Professor, 1996–2000

Istituto Elaborazione Informazione, CNR, Pisa, Italy,

Associate Researcher, 1997

Queen Mary, University of London, London, United Kingdom,

Lecturer, July 1997–

BRICS Int. PhD School – Computer Science Dept., University of Aarhus, Aarhus, Denmark,

Visiting Lecturer, August 1998–January 1999

Università di Catania, Catania, Italy,

Associate Professor, November 1998–

On November 1st, 1998 I was granted a (permanent) associate professorship at Dipartimento di Matematica e Informatica – Faculty of Sciences, Università di Catania, after qualifying for the post in an official national competition.

Scuola Superiore di Catania, Istituto Superiore per la Formazione di Eccellenza, Catania, Italy,

Board of Directors & Lecturer, October 1999–

On October 1999 I became a member of the Board of the Istituto Superiore di Catania per la Formazione di Eccellenza, Scuola Superiore di Catania (High Institute for Education of Excellence), where I have been responsible for the internal studies of Computer Science.

Information Technology University of Copenhagen, Copenhagen, Denmark,

Visiting Professor, November 2000–January 2001

University of Sussex, Brighton, United Kingdom,

Reader in Computer Science, February 2001–

In February 2001, I was appointed Reader in Foundations of Computer Science at the University of Sussex, Brighton, where I have been part of the Department of Informatics.

École Normale Supérieure, Paris, Paris, France,

Invited Professor, September 2002

University of Sussex, Brighton, United Kingdom,

Professor of Informatics, July 2004–

I was appointed to a Chair in Computer Science on July 1st, 2004.

University of Sussex, Brighton, United Kingdom,

Head of Informatics, March 2005–

I was Head of the Department of Informatics.

University of Southampton, Southampton, United Kingdom,

Professor of Computer Science, January 2006–

I was appointed to a Chair in Computer Science from January 1st, 2006.

University of Southampton, Southampton, United Kingdom,
Head of Graduate School, October 2006–September 2009

I have been the Director of the Graduate School in Electronics and Computer Science.

Université Paris VII Denis Diderot, Paris, France,
Invited Professor, November 2006

École Polytechnique, Paris, France,
Invited Professor, June 2008–September 2008

Electronics and Computer Science, University of Southampton, Southampton, United Kingdom,
Deputy Head of Web and Internet Science, January 2012–July 2014

GCHQ/EPSRC Academic Centre of Excellence for Research in Cyber Security, Southampton, UK,
Director, July 2012–

I am the Director of a centre of excellence for research in Cyber Security selected and sponsored by GCHQ, the UK Global Communication Headquarters, and EPSRC.

Sapienza Università di Roma, Roma, Italy,
Visiting Professor, February 2015–April 2015

I won an open competition by Sapienza Università di Roma for visiting professors.

Cyber Security Academy, Southampton, UK,
Director, November 2015–

I have been appointed Director of the Southampton Cyber Security Academy, a new partnership between the University of Southampton, industry and Government.

Funded Research Projects

Esprit Basic Research Actions,

Researcher, January 1991–

I have taken part in the EU ESPRIT Basic Research Actions CEDISYS and ACCLAIM, and in the EU SCIENCE programme, project MASK, and in WG APPSEM.

Consiglio Nazionale delle Ricerche, Italy,

Researcher & Co-promoter, 1997–1999

I was site leader of **MAC: Modelli Astratti di Computazione** (Abstract Models of Computation), a coordinated project involving the Universities of Bologna, Genova, Pisa, Torino and Udine, and competitively funded by Comitato Nazionale per la Matematica, **CNR** (Mathematics Committee, National Research Council), Italy.

Progetti di Ricerca Nazionali 1999 – MURST, Italy,

Coordinator of Research Unit, December 1998–December 2001

I was site leader of the project '*Theory of Concurrency, Higher Order, and Types*' for the programme '**Progetti Nazionali MURST (Ministry of University and Scientific and Technological Research) 1999**' as the coordinator of a research unit of the Catania site. (Funding: ~ €30,000)

Progetti di Ricerca di Ateneo 1999 – Università di Catania, Italy,

Coordinator of Research Unit, February 2000

I site leader of the project *Languages and Types for Processes and Mobile Objects and Security*, funded by Università di Catania in the context of the University Research Project (Progetti di Ricerca di Ateneo) 1999. (Funding: ~ €13,000)

Global Computing FET Initiative – University of Sussex, United Kingdom,

Project Coordinator, January 2002–December 2004

I have proposed and coordinated the three-year European project *MyThS: Models and Types for Security in Mobile Distributed Systems*, funded by the European Union in the context of the Framework 5th's Future Emerging Technologies, Global Computing Initiative, 2001. At the final review the project's management and outcomes have been classified as 'internationally outstanding.' (Funding: ~ €761,000)

Marie Curie Training Site – University of Sussex, United Kingdom,

Director of Research Training Centre, January 2002–December 2005

I have proposed and led the Marie Curie Training Site for *DisCo: Semantic Foundations of Distributed Computation*, funded by the European Union in the context of the Framework 5th's theme Improving Human Research Potential. (Funding: ~ €211,000)

Visiting Fellowships – University of Sussex, United Kingdom,

Principal Investigator, April 2003–May 2003

I have been the principal investigator of project COMMA: *Control Mechanisms for Mobile Ambients*, for two visiting Fellowships at the University of Sussex, funded by the UK Engineering and Physical Sciences Research Council, EPSRC. At the final review the project's management and outcomes have been classified as 'internationally outstanding.' (Funding: ~ £8,000)

Programmable Networks Initiative – University of Sussex, United Kingdom,

Principal Investigator, October 2003–September 2006

I was the principal investigator of *Third-Party Resource Usage for Pervasive Computing*, a three-year project funded by the UK Engineering and Physical Sciences Research Council, EPSRC, in the context of the 'Programmable Networks' initiative. (Funding: ~ £263,000)

WINES II Initiative – University of Southampton, United Kingdom,

Investigator, October 2006–April 2010

I was the site leader of *Pervasive Computing Support for Market Trading*, a project funded by the UK Engineering and Physical Sciences Research Council, EPSRC, in the context of the 'Wines II' initiative. (Funding: ~ £447,000)

Cyber Security Centre Funding Grant – University of Southampton, United Kingdom,

Principal Investigator, July 2012–June 2017

I was awarded a research grant by EPSRC and GCHQ to fund the *Centre of Excellence for Cyber Security Research* at Southampton. (Funding: ~ £50,000)

Cyber Security in the Internet of Things – University of Southampton, United Kingdom,

Principal Investigator, December 2013–March 2014

I was awarded a research grant by GCHQ to investigate the foundations of cyber security in the internet-of-things. (Funding: ~ £22,000)

Formal Verification of the Smart Metering Implementation Programme – University of Southampton, United Kingdom,

Principal Investigator, December 2013–March 2014

I was awarded a research grant by GCHQ to produce a formal study of the security of the UK Smart Metering Implementation Programme. (Funding: ~ £24,000)

Southampton Cybercrime Symposium – University of Southampton, United Kingdom,

Principal Investigator, December 2014–March 2016

I was awarded a grant by GCHQ to run three editions of the Southampton Cybercrime Symposium (Funding: ~ £25,000)

Cyber Security Laboratory – University of Southampton, United Kingdom,

Principal Investigator, December 2014–March 2015

I was awarded a grant by GCHQ to set up a cyber security lab. (Funding: ~ £30,000)

Cyber Identity Workshop – University of Southampton, United Kingdom,

December 2014–March 2015

My team was awarded a grant by GCHQ to sponsor a workshop on identities and cyber security, in cooperation with Imperial College, London. (Funding: ~ £16,000)

Dynamic and Static Features of Hands – University of Southampton, United Kingdom,

December 2015–March 2016

My team was awarded a research grant by GCHQ for build a new biometrics database, in cooperation with the University of Kent. (Funding: ~ £14,000)

Royal Academy of Engineering Distinguished Visiting Fellowship – University of Southampton, United Kingdom,

April 2015–March 2016

I was awarded a Distinguished Visiting Fellowship by RAEng, entitled ‘Cyber Foundations for the Internet-of-Things.’ (Funding: ~ £6,200)

Horizon 2020 – University of Southampton, United Kingdom,

Principal Investigator, January 2015–December 2017

I am the site leader of SUNFISH: Secure Information Sharing in Federated Heterogeneous Private Clouds, a project funded by the European Union in the context of the ‘Horizon 2020’ programme. (Funding: ~ 643,000; total budget ~ 4.3M)

Cyber Security Controls Effectiveness – University of Southampton, United Kingdom,

Investigator, February 2015–April 2015

I was awarded a research grant by HMG to produce an analysis of the effectiveness of the Cyber Security controls known as Cyber Essentials. (Funding: ~ £68,000)

Cyber Security Controls Effectiveness II – University of Southampton, United Kingdom,

Investigator, November 2015–April 2016

Building on the successful outcomes of the first project, HMG awarded us a second research grant to extend the analysis of the effectiveness of Cyber Essentials to further attack scenarios. This work is anticipated to lead to a strong *impact case study*. (Funding: ~ £40,000)

National Cipher Challenge Reboot – University of Southampton, United Kingdom,

Principal Investigator, November 2015–March 2016

In collaboration with Mathematics, I was awarded a grant by HMG to support the rebooting of the prestigious Southampton-run National Cipher Challenge. (Funding: ~ £24,000)

Language-Based Security for Smart Contracts in Distributed Ledgers – University of Southampton, United Kingdom,

Principal Investigator, November 2015–March 2016

I was awarded a research grant by GCHQ to investigate the security of smart contracts languages and virtual machines in blockchain technologies. This work is continuing beyond its natural end jointly with a team inside GCHQ. (Funding: ~ £25,000)

CASTLE: Enhancing Campus Cyber Security Through Constructivist Student Learning – University of Southampton, United Kingdom,

Investigator, January 2016–March 2017

My team was awarded a research grant by Higher Education Academy to investigate from a learning and practical perspective how a University cyber security posture can benefit from collaboration between industry cyber security experts, their own IT staff, multidisciplinary academics and students. This project is in collaboration with IBM and with the University’s professional computing services. (Funding: ~ £107,000)

Southampton Cyber Security Academy – University of Southampton, United Kingdom,

Principal Investigator, January 2016–

I secured industrial cash funding for the beginning of operation of the Southampton Cyber Security Academy. (Funding: ~ £1,500,000)

Roke/RAEng Research Chair in Cyber Security – University of Southampton, United Kingdom,

Principal Investigator, January 2016–

I won a competitive bid from the Royal Academy of Engineering to endow a Research Chair in Cyber Security at the University of Southampton, in collaboration with Roke Manor Research Ltd. (Funding: ~ £1,000,000)

Effective Data Anonymisation – University of Southampton, United Kingdom,

Principal Investigator, January 2016–December 2018

I was awarded a research grant by GCHQ to produce a framework and guidance for effective anonymisation of personal data. The work is planned to culminate in a white paper endorsed

by CESC and adopted by HMG. This work is anticipated to lead to a strong *impact case study*.
(Funding: ~ £225,000)

Professional Activity

Programme Committees Chairmanship

- ▶ International Workshop on *Concurrency and Coordination*, CONCOORD, Lipari, Italy, July 2001; (PROGRAMME CO-CHAIR);
- ▶ International Workshop on *Foundations of Wide Area Network Computing, F-WAN*, Málaga, Spain, July 2002; (PROGRAMME CHAIR);
- ▶ International Workshop on *Foundations of Global Computing, FGC*, Eindhoven, The Netherlands, June 2003; (PROGRAMME CHAIR);
- ▶ Workshops chair for 15th International Conference on *Concurrency Theory, CONCUR 2004*, London, UK, August 2004;
- ▶ International Conference on *Foundations of Software Science and Computation Structures, FoSSaCS 2005*, Edinburgh, UK, April 2005; (PROGRAMME CHAIR);
- ▶ 33rd International Colloquium on *Automata, Languages and Programming, ICALP 2006*, Venice, Italy, July 2006; (PROGRAMME CHAIR);
- ▶ *Visions of Computer Science* BCS International Academic Conference *BCS 2008*, London, UK, September 2008; (PROGRAMME CO-CHAIR);
- ▶ 6th IFIP International Conference on *Theoretical Computer Science TCS 2010*, Brisbane, Australia, September 2010; (PROGRAMME CO-CHAIR);
- ▶ 6th *Symposium on Trustworthy Global Computing, TGC 2011*, Aachen, Germany, September 2011; (PROGRAMME CO-CHAIR);
- ▶ 37th International *Symposium on Mathematical Foundations of Computer Science, MFCS 2012*, Bratislava, Slovakia, August 2012; (PROGRAMME CO-CHAIR);
- ▶ 1st, 2nd & 3rd *Southampton Cybercrime Symposium*, Winchester, UK, March 2014, 2015 & 2016; (PROGRAMME & EVENT CHAIR).

Programme Committees Membership

- ▶ 25th International Symposium on *Mathematical Foundations of Computer Science, MFCS 2000*, Slovak Republic, September 2000;
- ▶ 11th International Conference on *Concurrency Theory, CONCUR 2000*, Pennsylvania, USA, August 2000;
- ▶ 2nd Workshop on *Geometric and Topological Methods in Concurrency Theory, GETCO 2000*, Pennsylvania, USA, August 2000;
- ▶ 22nd International Conference on *Application and Theory of Petri Nets, ATPN 2001*, Newcastle, UK, June 2001;
- ▶ 3rd Workshop on *Geometric and Topological Methods in Concurrency Theory, GETCO 2001*, Aalborg, Denmark, August 2001.
- ▶ International Conference on *Foundations of Software Science and Computation Structures, FoSSaCS 2002*, Grenoble, France, April 2002;
- ▶ 23rd International Conference on *Application and Theory of Petri Nets, ATPN 2002*, Adelaide, Australia, June 2002;
- ▶ 4th Workshop on *Geometric and Topological Methods in Concurrency and Distributed Systems Theory, GETCO 2002*, Toulouse, France, October 2002;
- ▶ 15th International Symposium on *Fundamentals of Computation Theory, FCT 2003*, Malmö, Sweden, August 2003;

- ▶ 1st International Workshop on *Issues in Security and Petri Nets*, WISP 2003, Eindhoven, The Netherlands, June 2003;
- ▶ International Conference on *Software Engineering and Formal Methods*, SEFM 2003, Brisbane, Australia, September 2003;
- ▶ 5th Workshop on *Geometric and Topological Methods in Concurrency and Distributed Systems Theory*, GETCO 2003, Marseille, France, September 2003;
- ▶ International Workshop on *Services and Formal Methods*, WS-FM, Pisa, Italy, February 2004;
- ▶ International Conference on *Foundations of Software Science and Computation Structures*, FoSSaCS 2004, Barcelona, Spain, April 2004;
- ▶ 2nd International Workshop on *Issues in Security and Petri Nets*, WISP 2004, Turku, Finland, June 2004;
- ▶ International Workshop on *Logics for Resources, Processes, and Programs*, Turku, Finland, June 2004;
- ▶ International Workshop on *Coordination and Petri Nets*, Bologna, Italy, June 2004;
- ▶ 3rd IFIP TC1 International Conference on *Theoretical Computer Science*, TCS 2004, Toulouse, France, August 2004;
- ▶ 15th International Conference on *Concurrency Theory*, CONCUR 2004, London, UK, August 2004;
- ▶ International Conference on *Software Engineering and Formal Methods*, SEFM 2004, Beijing, China, September 2004;
- ▶ 6th Workshop on *Geometric and Topological Methods in Concurrency and Distributed Systems Theory*, GETCO 2004, Amsterdam, The Netherlands, October 2004;
- ▶ 3rd UK-UbiNet Workshop, Bath, UK, February 2005;
- ▶ 20th ACM Symposium on *Applied Computing*, SAC 2005, Special Track on *Object Oriented Programming Languages and Systems*, OOPS, Santa Fe, New Mexico, USA, March 2005;
- ▶ International Workshop on *Trustworthy Global Computing*, TGC 2005, Edinburgh, UK, April 2005;
- ▶ International Workshop on *Software Techniques for Embedded and Pervasive Systems*, STEPS 05, München, Germany, May 2005;
- ▶ 18th Computer Security Foundation Workshop, CSFW 2005, Aix-en-Provence, France, June 2005;
- ▶ 16th International Conference on *Concurrency Theory*, CONCUR 2005, San Francisco (CA) USA, August 2005;
- ▶ 4th International Workshop on *Foundations of Coordination Languages and Software Architectures*, Foclasa 2005, San Francisco (CA) USA, August 2005;
- ▶ International Workshop on *Graph Transformations for Verification and Concurrency*, GT-VC 2005, San Francisco (CA) USA, August 2005;
- ▶ International Workshop on *Web Services and Formal Methods* 2005, WS-FM 2005, Versailles, France, September 2005;
- ▶ 3rd International Conference on *Service-Oriented Computing* ICSOC 2005, Amsterdam, The Netherlands, December 2005;
- ▶ International Conference on *Foundations of Software Science and Computation Structures*, FoSSaCS 2006, Vienna, Austria, April 2006;
- ▶ International Workshop on *Dependability in Large-scale Service-oriented Systems*, DILSOS, Vienna, Austria, April 2006;
- ▶ International Workshop on *Term Graph Rewriting*, TERMGRAPH 2006, Vienna, Austria, April 2006;
- ▶ International Workshop on *Membrane Computing and Biologically Inspired Process Calculi*, MeCBIC 2006, Venice, Italy, July 2006;

- ▶ 5th International Workshop on *Foundations of Coordination Languages and Software Architectures, Foclasa 2006*, Bonn, Germany, August 2006;
- ▶ International Workshop on *Graph Transformations for Verification and Concurrency, GT-VC 2006*, Bonn, Germany, August 2006;
- ▶ International Workshop on *Web Services and Formal Methods, WS-FM 2006*, Vienna, Austria, September 2006;
- ▶ International Symposium on *Trustworthy Global Computing, TGC'06*, Lucca, Italy, November 2006;
- ▶ International Conference on *Service-Oriented Computing, ICSOC 2006*, Chigaco, USA, December 2006;
- ▶ 33rd International Conference on *Current Trends in Theory and Practice of Computer Science, SOFSEM'07*, Prague, Czech Republic, January 2007;
- ▶ International Workshop *Foundations of Interactive Computation, FInCo 2007*, Braga, Portugal, March 2007.
- ▶ International Workshop on Development in Computational Models, *DMC*, Wroclaw, Poland, July 2007;
- ▶ 22nd Annual IEEE Symposium on *Logic in Computer Science LICS 2007*, Wroclaw, Poland, July 2007;
- ▶ 18th International Conference on *Concurrency Theory, CONCUR 2007*, Lisbon, Portugal, September 2007;
- ▶ International Conference on *Foundations of Software Science and Computation Structures, FoSSaCS 2008*, Budapest, Hungary, April 2008;
- ▶ International Workshop on *Trust in Mobile Environments, TIME 2008*, Trondheim, Norway, June 2008;
- ▶ 1st Workshop on the *Theory and Practice of Provenance, TaPP 2009*, San Francisco (CA), USA, February 2009;
- ▶ 36th International Colloquium on *Automata, Languages and Programming, ICALP 2009*, Rhodes, Greece, July 2009;
- ▶ 2nd Workshop on *Logics for Agents and Mobility, LAM 2009*, Los Angeles (CA), USA, August 2009;
- ▶ 17th International Symposium on *Fundamentals of Computation Theory, FCT 2009*, Wroclaw, Poland, September 2009;
- ▶ 5th Symposium on *Trustworthy Global Computing, TGC 2010*, München, Germany, February 2010;
- ▶ 26th Conference *Mathematical Foundations of Programming Semantics, MFPS 2010*, Ottawa, Canada, May 2010;
- ▶ 3rd Workshop on *Logics for Agents and Mobility, LAM 2010*, Edinburgh, UK, July 2010;
- ▶ 35th International Symposium on *Mathematical Foundations of Computer Science, MFCS 2010*, Brno, Czech Republic, August 2010;
- ▶ Joint Workshop on *Automated Reasoning for Security Protocol Analysis and Issues in the Theory of Security, ARSPA-WITS 2011*, Saarbrücken, Germany March 2011;
- ▶ 38th International Colloquium on *Automata, Languages and Programming, ICALP 2011*, Zürich, Switzerland, July 2011;
- ▶ 22nd International Conference on *Concurrency Theory, CONCUR 2011*, Aachen, Germany, August 2011;
- ▶ 3rd International *CryptoForma* Workshop, 2013;
- ▶ *IFIP Theoretical Computer Science 2014*, Track B, TCS-B;

- ▶ 11th Workshop on *Automated Specification and Verification of Web Systems*, VWV 2015;
- ▶ 12th International Colloquium on Theoretical Aspects of Computing, *ICTAC 2015*;
- ▶ Embracing Global Computing in Emerging Economies 2015, *EGC2015*.

Editorial Boards

- ▶ I am managing editor of *ARCoSS, Advanced Research in Computing and Software Science*, a subline of Springer's Lectures Notes in Computer Science.
- ▶ I am editor-in-chief of *ACM SRS, Selected Readings in Computing*, a new publication by the ACM.
- ▶ I am an editor of the journal *Theoretical Computer Science*.
- ▶ I am an editor of the journal *Logical Methods in Computer Science*.
- ▶ I have been an associated editor of the *Computer Journal*.
- ▶ I am an editor of the *EPTCS, Electronic Proceedings in Theoretical Computer Science*.
- ▶ I have been the editor-in-chief of the *Bulletin of the EATCS*, the European Association of Theoretical Computer Science, from 2003 to 2008.

Invited Talks

- ▶ I have been an invited speaker at the *IST-FET Workshop on Global Computing*, 11 July 2002, Málaga, Spain.
- ▶ I delivered an invited presentation at the *EPSRC Annual Workshop on Programmable Networks*, 1 November 2002, Warwick, UK.
- ▶ I have been an invited speaker at *Workshop on Object Oriented Developments, WOODS*, 12 April 2003, Warsaw, Poland.
- ▶ I have been an invited speaker at the *Fields Institute's Workshop on Concurrency and Mobility*, 19 June 2003, Ottawa, Canada.
- ▶ I have been an invited speaker at the workshop *Formal Methods for Mobility, FMM*, 7 September 2003, Marseille, France.
- ▶ I have been an invited speaker at the *1st UK-UbiNet Workshop*, 25–26 September 2003, Imperial College, London.
- ▶ I have been an invited speaker at the Joint EU/NSF Strategic Research Workshop '*Engineering Software Intensive Systems*,' 22–23 May 2004, Edinburgh, UK.
- ▶ I have been an invited speaker at the Action Concertée Incitative '*Géométrie du Calcul*' (ACI GEOCAL) Workshop, 25–26 May 2004, Lyon, France.
- ▶ I have been an invited speaker at the FP6 FET Open Day 3–4th June 2004, Brussels, Belgium.
- ▶ I have been invited as a speaker at the *First International Conference on Algebras and Coalgebras in Computer Science*, 3–6th September 2005, Swansea, UK.
- ▶ I have been invited as a speaker at the *8th ACM SIGPLAN Symposium on Principles and Practice of Declarative Programming, PPDP*, 10–12th July 2006, Venice, Italy.
- ▶ I have been invited as a speaker at the *5th International Symposium on Formal Methods for Components and Objects, FMCO*, 7–10th November 2006, Amsterdam, The Netherlands.
- ▶ I have been invited as a speaker at the *5th International Applied and Computational Category Theory, ACCAT*, March 2007, Braga, Portugal.
- ▶ I have been invited as a speaker at the *5th Symposium on Trustworthy Global Computing, TGC 2010*, February 2010, München, Germany.
- ▶ I have been invited as a speaker at the *21st International Conference on Concurrency Theory, CONCUR 2010*, August 2010, Paris, France.

- ▶ I have been invited as a speaker at the workshop *Open Problems in Concurrency Theory*, June 2014, Bertinoro, Italy.
- ▶ I have been invited as a speaker at *Perspectives of System Informatics*, the Ershov Informatics Conference 2014, *PSI 2014*, June 2014, St Petersburg, Russia.
- ▶ I have been invited as a speaker at the 21th International Workshop on *Expressiveness in Concurrency* and the 11th *Workshop on Structural Operational Semantics, EXPRESS/SOS 2014*, September 2014, Rome, Italy.
- ▶ I have been invited as a speaker at the Workshop on *Tools and Methods for Cyber-Physical Systems of Systems, CPSoS*, September 2014, Bertinoro, Italy.
- ▶ I have been invited as a speaker at the *Information Assurance Technical Conference 2015*, February 2015, GCHQ, Cheltenham, UK.
- ▶ I have been invited as a speaker at the 13th International Workshop on *Quantitative Aspects of Programming Languages and Systems*, April 2015, London, UK.
- ▶ I have been invited as a speaker at the *Information Assurance Technical Conference 2016*, April 2016, GCHQ, Cheltenham, UK.
- ▶ I have been invited as a speaker at *Data Linkage & Anonymisation*, September 2016, Newton Institute, Cambridge, UK.

Schools

- ▶ I have been co-director of the 13th International School for Computer Science Researchers, *Foundations of Wide Area Network Programming*, July 2001, Lipari, Eolie Islands, IT.
- ▶ I have been an invited lecturer at the 3rd International School on *Foundations of Security Analysis and Design, FOSAD 2002*, September 2002, Bertinoro, IT.
- ▶ I have been an invited lecturer at the International Summer School on *Foundations of Security*, June 2003, Oregon University, USA.
- ▶ I have been invited as a lecturer at the International Summer School on *Ubiquitous Networks*, 13–15 September 2004, NeSC, Edinburgh, UK.
- ▶ I have been invited lecturer at the IMT, Institute for Advanced Studies, Lucca, PhD School, where I taught a course entitled *Current Trends in Trust and Anonymity*, 23–25 June 2010, Lucca, IT.
- ▶ I have been invited lecturer at the *Bertinoro International Spring School, BiSS 2011*, where I taught a course entitled *Trust in Anonymity Networks*, 7–14 March 2011, Bertinoro, IT.
- ▶ I have been invited lecturer at the *IFIP Summer School on Trust Management, IFIPTM 2011*, where I taught a course entitled *Formal Models of Trust*, 20–24 June 2011, Copenhagen, DK.
- ▶ I have been invited lecturer at the *CINI CyberSecurity Lab's Winter School in Securing Critical Infrastructures, SecureCI 2016*, where I taught a course entitled *Tor, Onion Routing and Anonymity Networks*, 17–21 January 2016, Cortina, IT.

Boards and Councils

- ▶ I am the founding president of the *ETAPS eV*, the European Association for Theory and Practice of Software. I have been chair of the steering committee *ETAPS*, the European Joint Conferences on Theory and Practice of Software, between 2006 and 2013.
- ▶ I am a member of the *Board* and of the *Council of the EATCS*, the European Association of Theoretical Computer Science, since 2003.
- ▶ I have been a member of *ANVUR*, the Italian National Agency for the Evaluation of Universities and Research, in the panel for the evaluation of *Mathematics and Informatics*.
- ▶ I have been a member of the panel awarding the EATCS Award, and I chaired it in 2015.

- ▶ I am a member of the *UKCRC*, the *UK Computing Research Committee*.
- ▶ I am a member of the *EPSRC College* since 2006.
- ▶ I have been a member of the *London Mathematical Society's Computer Science Committee*.
- ▶ I am a member of the *POST Steering Committee*, the *Conference on Principles of Security and Trust*.
- ▶ I have been a member of the *FOSSACS Steering Committee*, the *European Conference on Foundations of Software Science and Computation Structures*.
- ▶ I have been a member of the panel awarding the *EATCS Best Theoretical Paper Award*.
- ▶ I have been a member of the *Academic Senate* of the *University of Southampton* and of *Sussex*.
- ▶ I have been in the management *Board* of *UK-UbiNet*, the *EPSRC UK Network on Ubiquitous Networks*.
- ▶ I have been a member of the *Board of Directors* of the *Scuola Superiore di Catania per la Formazione di Eccellenza* (*High Institute for Education of Excellence*).
- ▶ I have been co-chairman of the *Board* of the *Faculty of Mathematical, Physical and Natural Sciences* of *Università di Catania* for the *European Structural Fund 2000-2006, Agenda 2000*.
- ▶ I have been a member of the *GRIN* (*Italian Association of Researchers in Informatics*) *National Board* for the *assessment of the research* in *Computer Science*.
- ▶ I have been a member of the *Board of Directors* of the *Department of Mathematics and Informatics* of *Università di Catania*, and *pro-director* for the departmental *Computing Center*.
- ▶ I have been *director* of the *Computing Center* of the *Scuola Superiore di Catania*.

Memberships in Scientific and Professional Bodies

- ▶ I am a member of the *IFIP Technical Committee TC1, Foundations of Computer Science*.
- ▶ I have been a co-editor of the *UK Grand Challenge Science for Global Ubiquitous Computing*, an activity of the *UK Computing Research Committee* (with *EPSRC* and *NeSC*).
- ▶ I have been the convenor of the *European Strategy Group for Global Computing*.
- ▶ I have been a member of the *IFIP Working Group 1.3, Foundations of System Specification*.
- ▶ I have been an invited observer of the *IFIP Working Group 2.2, Formal Description of Programming Concepts*.
- ▶ I have been acting as a consultant in a *Experts Panel* for the *European Commission's FP6 and FP7 Information Society Technologies and Future and Emerging Technologies* programmes.
- ▶ I have been acting as a project reviewer for the *Italian Ministry of University and Research*, and for the corresponding *French, German, Dutch and Finnish* institutions.
- ▶ I am a member of the *Marie Curie Fellowship Association*.

Qualifications and Awards

- ▶ I am an elected member of *Academia Europaea*.
- ▶ I am a *Fellow* of the *British Computer Society, BCS*.
- ▶ I was awarded the *European Association of Theoretical Computer Science's 'Best Theoretical Paper Award 2003'* (for the work [82]).
- ▶ I obtained the '*Qualification aux fonctions de Professeur des universités*' from the *French Ministry of Education and Research* in *February 2003*.
- ▶ I qualified as '*Directeur de Recherche*' of first class (*DR1*) at the *French CNRS* in *May 2013*.

Event Organisation

I have taken part in the organisation of the following events.

56th Peripatetic Seminar in Sheaves and Logic,

Computer Science and Mathematics Depts., University of Aarhus, Aarhus, Denmark,
3 & 4 December 1994;

7th International Conference on Concurrency Theory, CONCUR '96,

Università di Pisa, Italy,
26–30 August 1996;

International Workshop on Verification of Infinite State Systems, Infinity '96,

Università di Pisa, Italy,
30–31 August 1996;

24th International Colloquium on Automata, Languages and Programming, ICALP '97,

Università di Bologna, Italy,
7–11 July 1997;

13th International School for Computer Science Researchers,

Lipari Island, Eolie Islands, Italy,
1–14 July 2001.

International Workshop on Foundations of Wide Area Network Computing, F-WAN,

Malága, Spain,
12–13 July 2002.

2nd EATCS International Workshop on Foundations of Global Computing, FGC,

Eindhoven, The Netherlands,
28–29 June 2003.

UK-UbiNet Workshop on Security, Trust, Privacy in Ubiquitous Computing,

Cambridge, UK,
7–9 May 2004.

15th International Conference on Concurrency Theory, CONCUR '04,

London, UK,
31 August–3 September 2004;

European Joint Conferences on Theory and Practice of Software, ETAPS,

2007–2013 (as chair of the Steering Committee);

Royal Society Scientific Discussion Meeting on 'From computers to ubiquitous computing, by 2020',

The Royal Society, London, UK,
17 & 18 March 2008;

UK-China Cyber Security Workshop (with the Foreign and Commonwealth Office),

Southampton, UK,
8–12 July 2013;

South East Cybercrime Workshop (with the National Crime Agency and the College of Policing),

Southampton, UK,
30 January 2014;

UK-Japan Cyber Security Workshop (with the Foreign and Commonwealth Office),

Tokyo, Japan,
26–29 June 2014;

UK-Singapore Cyber Security Workshop (with the Foreign and Commonwealth Office),

Singapore,
23–25 February 2015;

The 2nd Southampton Cybercrime Symposium (with the National Crime Agency and the GCHQ),
Southampton, UK,
24 March 2015.

The 3rd Southampton Cybercrime Symposium (with the National Crime Agency and the GCHQ),
Winchester, UK,
22 March 2016.

A Cyber Training Day for Law Enforcement Officers (with PGI Bristol),
Winchester, UK,
23 March 2016.

Open Introductory Workshop for SMEs on Cyber Essentials,
Winchester, UK,
24 March 2016.

1st Inter-ACE Cyber Security Challenge,
Cambridge, UK,
23 April 2016.

US-UK Cyber Security Mission (with The Cabinet Office),
S. Francisco, Boston, USA,
8–13 May 2016.

Workshop on Future Publication Model for Software Science,
Winchester, UK,
22–23 June 2016.

Recent Consultancy Activity

- ▶ *National Crime Agency (NCA)* (and previously SOCA) – Cybercrime, Bitcoin
- ▶ *Hampshire Constabulary* – Cyber Training for Law Enforcement
- ▶ *South East Regional Organised Crime Unit (SEROCU)* – Chain of custody for electronic evidence
- ▶ *Bank of England* – Bitcoin
- ▶ *Financial Conduct Authority (FCA)* – Distributed Ledgers & Smart Contracts
- ▶ *Hara Media Ltd* – Watermarking

Teaching Activity

Programme design

I have led the design the *MSc in Cyber Security* and the *MEng in Computer Science with Cyber Security* at the University of Southampton. The former climbed to zero to fifty students in the arc of two years (raising ~ £750,000/year in fees), the latter first run will be in the 2016/17 academic year. Both programmes have won *accreditation* under GCHQ's quality assurance programme '*Certified Master's in Cyber Security.*'

Module leadership (in official courses of studies)

'Operational and Denotational Semantics of a Simple Functional Programming Language'
Università di Pisa — October 1992–December 1992

'Computability, Formal Languages, Semantics'
Università di Pisa — October 1992–December 1992

'Concurrency'
University of Aarhus — September 1994–December 1994

'Logic & Verification'
University of Aarhus — September 1995–December 1995

- 'Operating Systems'
Università di Pisa — February 1996–June 1996
- 'Internet & TCP/IP: An Overview'
Università di Pisa — May 1996
- 'Introduction to Category Theory'
Università di Pisa — May 1996–July 1996
- 'A Minicourse on NonInterleaving Transition Systems'
University of Aarhus — September 1996
- 'Computer Programming'
Università di Pisa — October 1996–January 1997
- 'Fundamentals of Computer Science: Semantics'
Università di Pisa — February 1997–June 1997
- 'Elements of Computability'
University of London — September 1997–December 1997
- 'Deduction'
University of London — September 1997–April 1998
- 'Introduction to Programming'
University of London — January 1998–April 1998
- 'Distributed Computation'
University of Aarhus — October 1998–December 1998
- 'Induction to Computer Science'
Università di Catania — September 1999
- 'Programming Laboratory'
Università di Catania — March 1999–June 1999
Università di Catania — October 1999–June 2000
- 'Programming Languages'
Università di Catania — March 1999–June 1999
Università di Catania — October 1999–June 2000
- 'Computer Programming'
Università di Catania — October 1999–June 2000
- 'Elements of Computer Science'
Scuola Superiore di Catania — October 1999–June 2000
- 'Internet Technologies'
University of Sussex — October 2001–December 2001
University of Sussex — October 2002–December 2002
University of Sussex — October 2003–December 2003
University of Sussex — October 2004–December 2004
- 'Multimedia Communication Technology'
University of Sussex — April 2002–June 2002
University of Sussex — April 2003–June 2003
University of Sussex — April 2004–June 2004
- 'Programming Techniques'
University of Sussex — October 2005–December 2005
- 'Logics & Sets'
University of Southampton — October 2007

University of Southampton — October 2008

University of Southampton — January 2010

University of Southampton — January 2011

‘Research Methods in Computing’

University of Southampton — October 2008– January 2009

University of Southampton — October 2009– January 2010

University of Southampton — October 2010– January 2011

‘Advanced Databases’

University of Southampton — February 2009– May 2009

University of Southampton — February 2010– May 2010

University of Southampton — February 2011– May 2011

University of Southampton — February 2012– May 2012

‘Agile & Object Oriented Development’

University of Southampton — October 2009– January 2010

University of Southampton — October 2009– January 2011

‘Types & Programming Languages’

University of Southampton — October 2009– January 2010

‘Distributed Computing’

University of Southampton — February 2010– May 2010

University of Southampton — February 2011– May 2011

University of Southampton — February 2012– May 2012

‘Data Management’

University of Southampton — October 2012– January 2013

University of Southampton — October 2013– January 2014

‘Applications of Security in Information Technology’

University of Southampton — October 2012– January 2013

University of Southampton — October 2013– January 2014

‘Foundations of Cyber Security’

University of Southampton — October 2014– January 2015

University of Southampton — October 2015– January 2016

‘Implementing Cyber Security’

University of Southampton — October 2014– January 2015

University of Southampton — October 2015– January 2016

‘Software Engineering and Cyber Security’

University of Southampton — October 2015– January 2016

Supervision of Research Students and Fellows

At Southampton I supervised PhD students on research topics including: *dynamic, probabilistic models for trust and reputation; provenance in distributed systems and data confidentiality; linked-data and syndication protocols; trust in anonymity protocols* cybersecurity and cybercrime issue with *electronic cash* and, in particular, *Bitcoin*; *distributed ledger* technologies and smart contracts; *privacy* issues in systems for *data provenance; Internet of Things*.

In my time at the University of Sussex, I (co)supervised seven PhD students. MC worked on themes concerned with modelling *trust* in global computing scenarios; DM focussed on *resource models and logics*, in the context of developing languages and frameworks for the specification and analysis of resource usage in global, distributed networks; KK investigated *event-based trust* models; BR worked on formalisms for *context awareness*. Further back in time, PS has been working on abstract models for concurrency, focusing in particular on categorical approaches to deriving *bisimulation congruences* from reduction systems. MB on concurrency and security, focusing in

particular on (coloured) *Petri nets*, the *join-calculus*, and on formal analysis for *cryptographic protocols*. GM worked on formal approaches to object oriented software development, in particular focussing on (typed) concurrent (object) calculi, with applications to *coordination*, '*inheritance anomaly*', *code refactoring*, and analysis of *security protocols*.

As the Coordinator of *MyThS: Models and Types for Security in Mobile Distributed Systems* and the Principal Investigator of *Third-party Resource Usage for Pervasive Computing* I have supervised several Research Fellows working on the project. As the Director of the European Marie Curie Training Site '*DisCo: Semantic Foundations of Distributed Computation*', I have been responsible for the supervision of the Marie Curie Fellows trained at Sussex under the programme.

Publications

Journal Papers

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Dynamic Congruence vs. Progressing Bisimulation for CCS. *Fundamenta Informaticae*, vol. 16(2), 171–199, 1992.
- [2] J. MESEGUER, U. MONTANARI, AND V. SASSONE.
Process versus Unfolding Semantics for Place/Transition Petri Nets. *Theoretical Computer Science*, vol. 153(1-2), 171–210, 1996.
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Models for Concurrency: Towards a Classification. *Theoretical Computer Science*, vol. 170(1-2), 297–348, 1996.
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An Axiomatization of the Algebra of Petri Net Concatenable Processes. *Theoretical Computer Science*, vol. 170(1-2), 277–296, 1996.
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On the Semantics of Place/Transition Petri Nets. *Mathematical Structures in Computer Science*, vol. 7, 359–397, 1997.
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An Axiomatization of the Category of Petri Net Computations. *Mathematical Structures in Computer Science*, vol. 8, 117–151, 1998.
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On the Algebraic Structure of Petri Nets. *Bulletin of the EATCS*, vol. 72, 133–148, 2000.
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Science for Global Ubiquitous Computing, Proposal of a *Grand Challenge* for the UK Computing Research Councils programme. *Bulletin of the EATCS* vol. 82, 325–333, 2004.
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Locating Reactions using 2-Categories. *Theoretical Computer Science* vol. 333(1-2), 297–327, 2005.
- [13] R. BRUNI, U. MONTANARI, AND V. SASSONE.
Observational congruences for dynamically reconfigurable tile systems. *Theoretical Computer Science*, vol. 335(2-3), 331–372, 2005.
- [14] M. CARBONE, M. NIELSEN, AND V. SASSONE.
Trust in Global Computing. *ALP Newsletter*, vol. 17(4), 4 pp., 2005.
- [15] D. GORLA, M. HENNESSY, AND V. SASSONE.
Security Policies as Membranes in Systems for Global Computing. *Logical Methods in Computer Science*, vol. 1(3:2), 1–21, 2005.

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Communication and Mobility Control in Mobile Ambients. *Information and Computation*, vol. 202(1), 39–86, 2005.
- [17] C. BRAGHIN, D. GORLA, AND V. SASSONE.
Role-based access control for a distributed calculus. *Journal of Computer Security*, vol. 14(2), 133–155, 2006.
- [18] R. CHADHA, D. MACEDONIO, AND V. SASSONE.
A Hybrid Intuitionistic Logic: Semantics and Decidability. In *Journal of Logic and Computation* vol. 16(1), 27–59, Oxford University Press 2006.
- [19] F. BARBANERA, M. BUGLIESI, M. DEZANI, AND V. SASSONE.
Space-Aware Ambients and Processes. *Theoretical Computer Science*, vol. 373(1-2), 41–69, 2007.
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Static BiLog: a Unifying Language for Spatial Structures. *Fundamenta Informaticae*, vol. 80, 1–20, 2007.
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A Logical Framework for History-Based Access Control and Reputation Systems. *Journal of Computer Security*, vol. 16(1) 63–101, 2007.
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An analysis of the exponential decay principle in probabilistic trust models. *Theoretical Computer Science*, vol. 410(41), 4067–4084, 2009.
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Permission-Based Separation Logic for Message-Passing Concurrency. *Logical Methods in Computer Science* vol. 7(3), 2011.
- [25] M. DEZANI-CIANCAGLINI, R. HORNE, AND V. SASSONE.
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- [31] S. HAMADOU, C. PALAMIDESSI, AND V. SASSONE.
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A Bayesian model for event-based trust. In *Festschrift in honour of Gordon Plotkin*, L. Cardelli et al (Eds.), Elsevier 2007.
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ETAPS Award 2014: Laudatio for Kohei Honda. *Bulletin of EATCS*, vol. 112, EATCS 2014
- [51] V. SASSONE, S. HAMADOU AND M. YANG.
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- [52] F. FOMIN, K. LARSEN, AND V. SASSONE.
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- [53] G. CIOBANU, R. HORNE, AND V. SASSONE.
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- [54] U. MONTANARI AND V. SASSONE.
CCS Dynamic Bisimulation is Progressing. In *Proceedings of the 16th International Symposium on the Mathematical Foundations of Computer Science, MFCS 1991*, LNCS n. 520, 346–356, Springer, 1991.
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