

Mario Verdicchio

Personal data

Born in Milano, December 23rd, 1975

Office address

Università degli Studi di Bergamo

Dipartimento di Ingegneria Gestionale, dell'Informazione e della Produzione

Via Marconi 5

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Education

PhD in Information and Communication Technologies, Politecnico di Milano

Thesis: "A Formal Model for Agent Communication Languages" (2004)

MSc in Computer Science Engineering (with honors), Politecnico di Milano

Thesis: "E-commerce technologies for Web-based Supply Chain Management" (in Italian, 2000)

Foreign Languages

English (fluent, both written and spoken)

Japanese (fluent spoken, good written)

German (good, both written and spoken)

French (good both written and spoken)

Spanish (fair, both written and spoken)

Research activity

MIUR (Ministry of University and Research) Researcher

Università degli Studi di Bergamo (2005 - present)

Post-doc researcher

Anemone project (co-financed by MIUR 2003/04), Politecnico di Milano (2004 - 2005)

PhD Student (Information and Communication Technologies, 16th cycle) Politecnico di Milano

Major research theme: A Logical Model for the Semantics of Agent Communication Languages

Supervisor: Prof. Marco Colombetti

Minor research theme: Model Cheking Secure Electronic Commerce Protocols

Supervisor: Prof. Pierluigi San Pietro

Teaching activity

Lecturer, Faculty of Engineering, Università degli Studi di Bergamo

Theoretical Computer Science (6 credits, 2005 - present)

Computer Science (6 credits, 2009 - present)

Operating Systems (6 credits, 2005 - 2008)

Computer Science Projects 3 (5 credits, 2004 - 2005)

Lecturer, Faculty of Foreign Languages and Literatures, Università degli Studi di Bergamo

Web Systems for Tourism (5 credits, 2013 - present)

Computer Science for Communication Sciences (5 credits, 2012 - present)

Computer Science for Humanities 2 (5 credits, 2011 - 2012)

Teaching Assistant, Faculty of Engineering, Università degli Studi di Bergamo

Computer Science 1 (2007 - 2008)

Computer Science 3 (2007 - 2008)

Computer Science Projects 3 (2005 - 2007)

Lecturer, Politecnico di Milano

Computer Science (10 credits, Faculty I, 2004 - 2007)

Computer Science 2 (6 credits, Faculty V, 2004 - 2005)

Teaching Assistant, Politecnico di Milano

Artificial Intelligence (Prof. Colombetti, Faculty V, 2003 - present)

Computer Science 2 (Prof. Baresi, Faculty V, 2001 - 2004)

Summer schools and experience as a visiting scholar

IBM Zurich Research Laboratory, Zurich (2008 - 2010)
for EU FP7 Project "PrimeLife"

Department of Computing, Imperial College, London (2002)
for the British 2001/2002 program (England-Italy collaboration for research and higher education)

The Thirteenth European Summer School in Logic Language and Information (ESLLI), Helsinki (2001)

The Third European Agent Systems Summer School (EASSS), Prague (2001)

Conference activity

The 3rd International Conference on Computation, Communication, Aesthetics and X (xCoAx 2015, Glasgow) - *Organiser*

The 2nd International Conference on Computation, Communication, Aesthetics and X (xCoAx 2014, Porto) - *Organiser*

The 1st International Conference on Computation, Communication, Aesthetics and X (xCoAx 2013, Bergamo) - *Chair*

Publications

Books

M. Verdicchio

“L’informatica per la comunicazione”

Ed. Franco Angeli, Milano, pp. 230 (2015)

Journals

V. Schiaffonati, *M. Verdicchio*

“Rethinking Experiments in a Socio-Technical Perspective: The Case of Software Engineering”

Philosophies, 1(1):87-101 (2015) DOI: 10.3390/philosophies1010087

M. Verdicchio

“Informatica e arte: contraddizione, rivoluzione, evoluzione”

Mondo Digitale, 57:1-20 (2015)

V. Schiaffonati, *M. Verdicchio*

“Computing and Experiments”

Philosophy & Technology, 27(3):359-376 (2014) ISSN: 2210-5441

C. A. Ardagna, S. De Capitani di Vimercati, S. Paraboschi, E. Pedrini, P. Samarati, *M. Verdicchio*

“Expressive and Deployable Access Control in Open Web Service Applications”

IEEE Transactions on Services Computing, 4(2): 96-109 (2011) ISSN: 1939-1374

C.A. Ardagna, J. Camenisch, M. Kohlweiss, R. Leened, G. Neven, B. Priem, P. Samarati, D. Sommer, *M. Verdicchio*

“Exploiting cryptography for privacy-enhanced access control: A result of the PRIME Project”

Journal of Computer Security, 18(1): 123-160 (2010) ISSN: 0926-227X

M. Verdicchio, M. Colombetti

“Communication Languages for Multiagent Systems”

Computational Intelligence, 25(2): 136-159 (2009) ISSN: 0364-0213

N. Fornara, F. Viganò, *M. Verdicchio*, M. Colombetti

“Artificial institutions: a model of institutional reality for open multiagent systems”

Artificial Intelligence and Law, 16(1): 89-105 (2008) ISSN: 0924-8463

M. Colombetti, N. Fornara, *M. Verdicchio*

“Linguaggio e realtà sociale nei sistemi di agenti artificiali”

Networks: a journal of the philosophy of artificial intelligence and cognitive sciences, 3(1): p.20 (2003) ISSN: 1126-4780

M. Verdicchio, M. Colombetti

“Commitments for Agent-Based Supply Chain Management”

ACM SIGecom Exchanges, 3(1): p.11 (2002) EISSN: 1551-9031

Conference proceedings

V. Schiaffonati, *M. Verdicchio*

“The Influence of Engineering Theory and Practice on Philosophy of Artificial Intelligence”

Philosophy and Theory of Artificial Intelligence, V.C. Müller (ed.), 375-388, Springer (2013)

J. Bach, *M. Verdicchio*

“What Kind of Machine is the Mind?”

Turing 100, A. Voronkov (ed.), 16-19, EpiC (2012)

Patrik Bichsel, Jan Camenisch, *Mario Verdicchio*

“Recognizing Your Digital Friends”

Proceedings of SocialCom/PASSAT 2011, 1310-1313, IEEE Computer Society (2011) ISBN: 978-1-4577-1931-8

G. Singh, M. Arrigoni Neri, *M. Verdicchio*

“A Web-based Survey to Evaluate the Aesthetic Impact of the Golden Ratio”

Proceedings of the 14th Generative Art International Conference, 207-217, Argenia (2011) ISBN: 978-88-9610-145

C.A. Ardagna, S. De Capitani di Vimercati, G. Neven, S. Paraboschi, F.S. Preiss, P. Samarati, *M. Verdicchio*

“Enabling Privacy-preserving Credential-based Access Control with XACML and SAML” *Proceedings of the 10th International Conference on Computer and Information Technology (CIT 2010)*, 1090-1095, IEEE Computer Society (2010)

ISBN: 978-0-7695-4108-2

C.A. Ardagna, S. De Capitani di Vimercati, S. Foresti, G. Neven, S. Paraboschi, F.S. Preiss, P. Samarati, *M. Verdicchio*

“Fine-Grained Disclosure of Access Policies” *Proceedings of the 12th International Conference on Information and Communications Security (ICICS 2010)*, Lecture Notes in Computer Science 6476: 16-30, Springer (2010)

ISBN: 3-642-17649-6 978-3-642-17649-4

M. Verdicchio

“Generative vs Non-Generative Art in the Verification of the Institutional Stance”

Proceedings of the 13th Generative Art International Conference, 313-318, Argenia (2010) ISBN: 978-88-96610-06-0

E. Lorini, *M. Verdicchio*

“Towards a Logical Model of Social Agreement for Agent Societies” *Coordination, Organizations, Institutions and Norms in Agent Systems V*, Lecture Notes in Computer Science 6069: 147-162, Springer (2009)

ISBN: 3-642-14961-8 978-3-642-14961-0

P. Bichsel, S. Müller, F.S. Preiss, D. Sommer, *M. Verdicchio*

“Security and Trust through Electronic Social Network-based Interactions”

Proceedings of the 12th IEEE International Conference on Computational Science and Engineering (CSE '09), 1002-1007,

IEEE Computer Society (2009) ISBN: 978-0-7695-3823-5

P. Spoletini, *M. Verdicchio*

“An Automata-based Monitoring Technique for Commitment-based Multi-Agent Systems”

Coordination, Organizations, Institutions and Norms in Agent Systems IV, Lecture Notes in Computer Science 5428: 172-187,

Springer (2009) ISBN: 978-3-642-00442-1

M. Celesti, *M. Verdicchio*

“Painting with Outliners and Fillers” *Proceedings of the 12th Generative Art International Conference*, 339-343, Argenia (2009)

ISBN: 978-8-896-61000-8

P. Spoletini, *M. Verdicchio*

“Commitment Monitoring in a Multiagent System”

Multi-Agent Systems and Applications V, Proceedings of the 5th International Central and Eastern European Conference on

Multi-Agent Systems (CEEMAS 2007), Lecture Notes in Computer Science 4696: 83-92, Springer (2007)

ISBN: 978-3-540-75253-0

M. Verdicchio, M. Colombetti

“From Message Exchanges to Communicative Acts to Commitments”

Proceedings of the 3rd International Workshop on Logic and Communication in Multi-Agent Systems (LCMAS 2005),

Electronic Notes in Theoretical Computer Science 157(4): 75-94, Elsevier (2006) ISSN: 1571-0661

G.Armano, P.Baroni, G.Cherchi, M.Colombetti, A.Gerevini, M.Mari, A.Poggi, C.Santoro, E.Tramontana, *M. Verdicchio*

“ANEMONE – A Network of Multi-Agent Platforms for Academic Communities”

*Proceedings of WOA 2005: 6th AI*LA/TABOO Joint Workshop "From Objects to Agents": Simulation and Formal Analysis of Complex Systems*, 120-126, Pitagora Editrice (2005)

- M. Verdicchio, M. Colombetti
“A commitment-based communicative act library”
Proceedings of the 4th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS 2005), 755-761, ACM Press (2005) ISBN:1-59593-093-0
- M. Verdicchio, M. Colombetti
“A commitment-based communicative act library (Extended abstract)”
Proceedings of the 3rd European Workshop on Multi-Agent Systems (EUMAS 2005), 511-512 (2005)
- M. Verdicchio, M. Colombetti
“Temporal Expressions for Content Languages”
Proceedings of the 2nd European Workshop on Multi-Agent Systems (EUMAS 2004), 749-758 (2004)
- M. Verdicchio, M. Colombetti
“Dealing with Time in Content Language Expressions”
Developments in Agent Communication: Proceedings of AAMAS 2004 Workshop on Agent Communication, Lecture Notes in Artificial Intelligence 3396: 99-114, Springer (2004)
- M. Verdicchio, P. San Pietro
“Model Checking-Aided Design of Secure Distributed Systems”
Proceedings of the LASTED International Conference on Software Engineering (SE 2004), p.6, ACTA Press (2004)
- M. Colombetti, N. Fornara, M. Verdicchio
“A Social Approach to Communication in Multiagent Systems”
Declarative Agent Languages and Technologies, First International Workshop (DALT 2003)
Lecture Notes in Computer Science 2990: 191-220, Springer (2004)
- M. Verdicchio, M. Colombetti
“A Logical Model of Social Commitment for Agent Communication”
Advances in Agent Communication, Lecture Notes in Artificial Intelligence 2922: 128-145, Springer (2004), extends (*)
- M. Verdicchio, M. Colombetti
“A Model of Artificial Institutions for Agent Communication”
Proceedings of the 1st European Workshop on Multi-Agent Systems (EUMAS 2003), p.11 (2003), reprint of (**)
- M. Verdicchio, M. Colombetti
“A Logical Model of Social Commitment for Agent Communication”
Proceedings of the 2nd International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS '03), 528-535, ACM Press (2003) ISBN:1-58113-683-8
- M. Verdicchio, M. Colombetti
“A Model of Artificial Institutions for Agent Communication”
Proceedings of the Workshop on Logic and Communication in Multi-Agent Systems (LCMAS '03),
Electronic Notes in Theoretical Computer Science 85(2): p.11, Elsevier (2003)
- M. Verdicchio, P. San Pietro,
“Model Checking the Secure Electronic Transaction Protocol”
Proceedings of the Conference on Design, Analysis, and Simulation of Distributed Systems 2003 (DASD 03), 165-171 (2003)
- M. Colombetti, N. Fornara, M. Verdicchio
“The Role of Institutions in Multiagent Systems”
Proceedings of the UK Workshop on Multiagent Systems (UKMAS-2002), p.11 (2002)
- M. Colombetti, N. Fornara, M. Verdicchio
“The Role of Institutions in Multiagent Systems”
Atti dell'VIII Convegno dell'Associazione Italiana per l'Intelligenza Artificiale, p.11 (2002)

M. Colombetti, *M. Verdicchio*

“An Analysis of Agent Speech Acts as Institutional Actions”

Proceedings of the 1st International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS '02), 1157-1164, ACM Press (2002) ISBN:1-58113-480-0

Book chapters

C. A. Ardagna, S. De Capitani di Vimercati, G. Neven, S. Paraboschi, E. Pedrini, F. S. Preiss, P. Samarati, *M. Verdicchio*, “Advances in Access Control Policies” In J. Camenisch, S. Fischer-Huebner, K. Rannenberg (a cura di), *Privacy and Identity Management for Life*, 327-341, Springer (2011) ISBN 978-3-642-20316-9

M. Colombetti, N. Fornara, *M. Verdicchio*

“Speech Acts in Artificial Agent Communication” *Linguistica e Nuove Professioni*, 70-92, Franco Angeli (2003)

ISBN: 9788846450104

Technical reports

M. Verdicchio

“Model Checking the Secure Electronic Transaction Protocol with SPIN”

Rapporto interno, Politecnico di Milano – Dipartimento di elettronica e informazione (2002)

Other

M. Verdicchio

“Funzioni, Macchine, Algoritmi: Introduzione alla Teoria della Computabilità di M. Frixione e D. Palladino”

Intelligenza Artificiale, Anno 1, N.4 (2004)

R. Brambilla, S. Mainetti, *M. Verdicchio*

“Architetture e tecnologie per l'apertura dei sistemi informativi al mondo Internet”

Sesto rapporto sul sistema finanziario italiano, vol. 1, 79-112, Fondazione Rosselli (2001)

January 23rd, 2016