

# VIOLA SCHIAFFONATI

## Curriculum Vitae

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Dipartimento di Elettronica, Informazione e Bioingegneria  
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### RESEARCH PROFILE

Specialization: Philosophy of Science and Technology, Philosophy of AI and Robotics, Philosophy of Computer Science, Philosophy and Engineering.

Competence: Epistemology, Computer Ethics.

### EDUCATION

- May 2004      **Doctoral degree in Philosophy-Philosophy of Science** - Università degli Studi di Genova (Italy).
- April 1999    **Laurea degree** (equivalent to a master degree) *summa cum laude in Philosophy* - Università degli Studi di Milano (Italy).
- July 1993     **“Diploma” degree in Classical Studies** - Liceo-Ginnasio Statale G. Berchet, Milan (Italy).

### ACADEMIC APPOINTMENTS

- 2014-            **Associate Professor of Logic and Philosophy of Science**, Dipartimento di Elettronica, Informazione e Bioingegneria, Politecnico di Milano, Italy.
- 2010-2014      **Assistant Professor**, Dipartimento di Elettronica, Informazione e Bioingegneria, Politecnico di Milano, Italy (maternity leave from September 2010 to February 2011).
- 2006-2010      **Research Associate**, Dipartimento di Elettronica e Informazione, Politecnico di Milano, Italy (maternity leave from October 2007 to March 2008).
- 2005-2010      **Post-doc researcher**, Istituto di Tecnologie della Comunicazione, Facoltà di Comunicazione, Università della Svizzera Italiana, Switzerland.
- 2004-2005      **Post-doc researcher**, Istituto di Filosofia Applicata, Facoltà di Teologia di Lugano, Switzerland.
- 2000-2001      **Visiting scholar**, Department of Philosophy, University of California at Berkeley, USA.
- 2000-2004      **Graduate student** in Philosophy-Philosophy of Science, Università degli Studi di Genova

and Università degli Studi di Milano, Italy.

1999- **Member** of the Politecnico di Milano Artificial Intelligence and Robotics Laboratory, Politecnico di Milano, Italy.

## MOBILITY

January 2019 **Visiting Professor** at Dipartimento di Ingegneria dell'Informazione, Università di Pisa, invited by Giuseppe Anastasi.

January 2018 **Visiting Professor** at Friedrich-Alexander-Universität Erlangen-Nürnberg Lehrstuhl für Wirtschaftsinformatik, invited by Dr. Albrecht Fritzsche.

November 2016 **Visiting scholar** at Department of Technology, Policy and Management, Philosophy Section, TU Delft, invited by Prof. Neelke Doorn.

December 2006 **Visiting scholar** at CSLI, Stanford University, USA, invited by Prof. Patrick Suppes.

October 2005 **Visiting researcher** at the Suppes Center for the Interdisciplinary Study of Science and Technology, Stanford University, USA.

October 2004 **Visiting scholar** at CSLI, Stanford University, USA, invited by Prof. Patrick Suppes.

August 2002 **Visiting scholar** at CSLI, Stanford University, USA, invited by Prof. Patrick Suppes.

2000-2001 **Visiting scholar** at the Department of Philosophy, University of California at Berkeley, USA, invited by Prof. Paolo Mancosu.

## GRANTS, FELLOWSHIPS AND AWARDS

2005 Grant to visit the Suppes Center for the Interdisciplinary Study of Science and Technology, Stanford University, USA.

2005 Prize “Premio di filosofia: viaggio a Siracusa”: special mention for the doctoral thesis, Collegio Siciliano di Filosofia e Istituto Studi Filosofici, Italy.

2000-2001 Rotary Foundation scholarship to spend an academic year in a United States university.

2000-2004 Four years scholarship by the Italian Ministry of Education to participate to the Doctoral program in Philosophy-Philosophy of Science at Università degli Studi di Genova, Italy.

## PUBLICATIONS

### Monographs

1. Ferrario, R., Schiaffonati, V. (2012). *Formal Methods and Empirical Practices. Conversations with Patrick Suppes*, CSLI Publications, Stanford (CA). Review in Campaner, R. (2016). “Roberta Ferrario and Viola Schiaffonati: Formal Methods and Empirical Practices: Conversations with Patrick Suppes”, *Axiomathes* DOI 10.1007/s10516-016-9311-5.

## Edited Volumes

1. Amigoni, F., Schiaffonati, V. (2014). *Methods and Experimental Techniques in Computer Engineering*, SpringerBriefs in Applied Sciences and Technology, Springer.
2. Di Bernardino, E., Lucchetti, R., Schiaffonati, V. (2011). *Temi filosofici dell'ingegneria e della scienza*, Maggioli Editore, Santarcangelo di Romagna.
3. Danielli, A., Schiaffonati, V. (2008). *Le forme della mente. Percorsi multidisciplinari tra modularismo e connessionismo*, il Mulino, Bologna.

## Edited Volumes (Parts)

1. Amigoni, F., Schiaffonati, V. (2017). *Springer Handbook of Model-Based Science*, Part G- Modelling and Computational Issues, Springer, p. 693-837.

## Articles in Peer-Reviewed Journals

1. Datteri, E., Schiaffonati, V. (2019). "Robotic Simulations, Simulations of Robots", *Minds and Machines*, <https://doi.org/10.1007/s11023-019-09490-x>
2. Amigoni, F., Schiaffonati, V. (2018). "Ethics for robots as experimental technologies: Pairing anticipation with exploration to evaluate the social impact of robotics", *IEEE Robotics and Automation Magazine*, 25(1), p. 30-36.
3. Amigoni, F., Luperto, M., Schiaffonati, V. (2017). "Toward generalization of experimental results for autonomous robots", *Robotics and Autonomous Systems*, Elsevier, 90, p. 4-14.
4. Schiaffonati, V. (2016). "Stretching the Traditional Notion of Experiment in Computing: Explorative Experiments", *Science and Engineering Ethics*, Springer, 22(3), p. 647-665.
5. Schiaffonati, V., Verdicchio, M. (2016). "Rethinking Experiments in a Socio-Technical Perspective: The Case of Software Engineering", *Philosophies*, 1(1), p. 87-101; doi:10.3390/philosophies1010087.
6. Pelillo, M., Scantamburlo, T., Schiaffonati, V. (2015). "Pattern recognition between science and engineering: A red herring?", *Pattern Recognition Letters*, Elsevier, 64, p.3-10.
7. Amigoni, F., Bastianelli, E., Berghofer, J., Bonarini, A., Fontana, G., Hochgeschwender, N., Iocchi, L., Kraetzschmar, G., Lima, P., Matteucci, M., Miraldo, P., Nardi, D., Schiaffonati, V. (2015). "Competitions for Benchmarking: Task and Functionality Scoring Complete Performance Assessment", *Robotics & Automation Magazine*, IEEE, 22(3), p. 53-61.
8. Schiaffonati, V., Verdicchio, M. (2014). "Computing and Experiments", *Philosophy & Technology*, Springer, 27(3), p. 359-376.
9. Schiaffonati, V. (2010). "Computer simulations ed esperimenti *in virtuo*", *Mondo Digitale*, 34, June 2010, 3-12.
10. Amigoni, F., Reggiani, M., Schiaffonati, V. (2009). "An Insightful Comparison between Experiments in Mobile Robotics and in Science", *Autonomous Robots*, Springer, 27(4), p. 313-325.
11. Amigoni, F., Schiaffonati, V. (2009). "The Minerva System: A Step Toward Automatically Created Virtual Museums", *Applied Artificial Intelligence*, Taylor & Francis 23(3), p. 204-232.
12. Amigoni, F., Schiaffonati, V. (2008). "A Multiagent Approach to Modelling Complex Phenomena", *Foundations of Science*, Springer, 13(2), p. 113-125.

13. Amigoni, F., Schiaffonati, V. (2007). "The Multiagent Technology and Paradigm Within Scientific Discovery", *International Journal on Artificial Intelligence Tools*, World Scientific, 16(2), p. 219-242.
14. Schiaffonati, V. (2006). "Riflettere sui dettagli della scienza: Patrick Suppes e i modelli", *Epistemologia*, XXIX, p. 239-266.
15. Amigoni, F., Schiaffonati, V. (2004). "Artificial Intelligence for Automatic Museum Organization", *Politecnico*, Politecnico di Milano, 8, 2004, p. 138-143.
16. Amigoni, F., Schiaffonati, V. (2004). "The Minerva Multiagent System for Museums Organization". *Intelligenza Artificiale*, Associazione italiana per l'intelligenza artificiale (AI\*IA), 1(1), February 2004, p. 39-43.
17. Amigoni, F., Gatti, N., Schiaffonati, V. (2003). "Marco Somalvico's Legacy on Multiagent Systems", (invited). *AI\*IA Notizie*, Associazione italiana per l'intelligenza artificiale (AI\*IA), 16(3), p. 78-81.
18. Schiaffonati, V. (2003). "A Framework for the Foundation of the Philosophy of AI", *Minds and Machines, Special Issue on the Philosophy of Information*, Springer, 13(4), p. 537-552.
19. Amigoni, F., Schiaffonati, V., Somalvico, M. (2003). "The Bipolar Man Framework for Human-Centred Intelligent Systems", *International Journal of Knowledge-Based Intelligent Engineering Systems*, KES International, 7(1), p. 23-29.
20. Amigoni, F., Schiaffonati, V., Somalvico, M. (2002). "Multiagent System Based Scientific Discovery Within Information Society", *Mind & Society, Special Issue on Scientific Discovery: Model-Based Reasoning*, Rosenberg & Sellier, Fondazione Rosselli, 3(5), p. 111-127.
21. Amigoni, F., Schiaffonati, V., Somalvico, M. (2000). "A Multilevel Architecture of Creative Dynamic Agency", *Foundations of Science*, Kluwer Academic Publisher, 5(2), p. 157-184.
22. Amigoni, F., Schiaffonati, V., Somalvico, M. (1999). "Processing and Interaction in Robotics", *Sensors and Actuators A: Physical*, Elsevier, 72(1), p. 16-26.

#### Articles in Peer-Reviewed Volumes

1. Schiaffonati, V. (2018). "Philosophy of Engineering and the Quest for a Novel Notion of Experimentation" in Fritzsche, A., Oks, S. J. (eds.) *The Future of Engineering*, Springer, 89-103.
2. Amigoni, F., Schiaffonati, V. (2018). "Robotic competitions as experiments" in Friederich, A., Gehring, P., Hubig, C., Kaminski, A., Nordmann, A. (eds.) *Arbeit und Spiel, Jahrbuch Technikphilosophie 2018*, Nomos, p. 119-138.
3. Schiaffonati, V., Verdicchio M., (2018). "What Do Bridges and Software Tell Us about the Philosophy of Engineering?". In: Mitcham C., LI B., Newberry B., ZHANG B. (eds.) *Philosophy of Engineering, East and West*. Boston Studies in the Philosophy and History of Science, vol 330. Springer, Cham, 137-148.
4. Amigoni, F., Schiaffonati, V. (2017). "Models and Experiments in Robotics" in Magnani, L. Bertolotti, T. (eds.) *Springer Handbook of Model-Based Science*, Springer, p. 799-815.
5. Amigoni, F., Schiaffonati, V. (2016). "Explorative Experiments in Autonomous Robotics" in Magnani, L., Casadio, C. (eds.), *Model-Based Reasoning in Science and Technology, Logical, Epistemological, and Cognitive Issues*, SAPERE, Springer, p. 585-599.
6. Amigoni, F., Schiaffonati, V. (2014). "Autonomous Mobile Robots as Technical Artifacts: A Discussion of Experimental Issues" in Magnani, L. (ed.), *Model-Based Reasoning in Science and Technology Theoretical and Cognitive Issues*, SAPERE 8, Springer, p. 527-542.
7. Amigoni, F., Schiaffonati, V., Verdicchio, M. (2014). "Good Experimental Methodologies for Autonomous Robotics: From Theory to Practice" in Amigoni, F., Schiaffonati, V. (eds.), *Methods and Experimental Techniques in Computer Engineering*, SpringerBriefs in Applied Sciences and Technology, Springer, p. 37-53.

8. Schiaffonati, V. (2013). “Future Reflective Practitioners: The Contributions of Philosophy” in Michelfelder et al. (eds.), *Philosophy and Engineering: Reflections on Practice, Principles and Processes*, Philosophy of Engineering and Technology 15, Springer, p. 79-90.
9. Schiaffonati, V., Verdicchio M. (2013). “The Influence of Engineering Theory and Practice on Philosophy of AI” in Müller, V. C. (ed.), *Philosophy and Theory of Artificial Intelligence*, SAPERE 5, Springer, p. 375-388.
10. Amigoni, F., Schiaffonati, V. (2010). “Good Experimental Methodologies and Simulation in Autonomous Mobile Robotics” in Magnani, L., Carnielli, W., Pizzi, C. (eds.), *Model-Based Reasoning in Science and Technology*, Springer, p. 315-332.
11. Amigoni, F., Schiaffonati, V. (2007). “Multiagent-Based Simulation in Biology” in Magnani, L., Li, P. (eds.), *Model-Based Reasoning in Science, Technology, and Medicine*, Studies in Computational Intelligence, vol. 64, Springer, p. 179-191.
12. Schiaffonati, V. (2005), “Intelligenza artificiale e information design. Progettare la comunicazione in più dimensioni per modellare un ambiente formativo” in Fioresi, I. (ed.), *Multimedialità cognitiva*, Utet, p. 267-272.
13. Colombetti, M., Schiaffonati, V. (2004). “Computo ergo sum. Un’introduzione ai modelli computazionali della coscienza” in Galati, D., Tinti, C. (eds.), *Prospettive sulla coscienza*, Carocci, p. 159-183.
14. Schiaffonati, V. (2004). “Etica nella cultura tecnica. Tecnica e cultura della responsabilità” in Bertoldini, M. (ed.), *La cultura politecnica*, Bruno Mondadori, p. 138-142.
15. Somalvico, M., Amigoni, F., Schiaffonati, V. (2003). “Intelligenza Artificiale” (invited article). In Petruccioli, S. (director); *Storia della scienza vol. IX*, Istituto della Enciclopedia Italiana, p. 615-624.
16. Amigoni, F., Schiaffonati, V., Somalvico, M. (2001). “Dynamic Agency: Models for Creative Production and Technology Applications” in Riva, G., Davide, F. (eds.), *Communications Through Virtual Technology: Identity, Community, and Technology in Internet Age*, IOS Press, p. 167-192.

### Articles in Peer-Reviewed Conference Proceedings

1. Schiaffonati, V. (2017). “Experimenting with computing and in computing: Stretching the traditional notion of experimentation”, *Proceedings of the 14th European Conference on Artificial Life 2017 (ECAL 2017)*, MIT Press, p. 2-3.
2. Schiaffonati, V., Verdicchio, M. (2015). “The Science in Computer Science: In Search of New Frameworks”, *Preliminary Proceedings of the Third International Conference on the History and Philosophy of Technology (HaPoC 2015)*, Pisa University Press, p. 85-86.
3. Amigoni, F., Luperto, M., Schiaffonati, V. (2014). “Toward Generalization of Experimental Results for Autonomous Robots”, *Proceedings of NRF-LAS (Workshop on New Research Frontiers for Intelligent Autonomous Systems)* - ISBN:9788895872087, p. 1-7.
4. Schneider, S., Hegger, F., Ahmad, A., Awaad, I., Amigoni, F., Berghofer, J., Bischoff, R., Bonarini, A., Dwiputra, R., Fontana, G., Iocchi, L., Kraetzschmar, G., Lima, P., Matteucci, M., Nardi, D., Schiaffonati, V. (2014). “The RoCKIn@Home Challenge”, *Atti della “45th International Symposium on Robotics (ISR/Robotik 2014)”*, Monaco, Germania, June 2-3 2014, p. 321-327.
5. Schneider, S., Hegger, F., Ahmad, A., Awaad, I., Amigoni, F., Berghofer, J., Bischoff, R., Bonarini, A., Dwiputra, R., Fontana, G., Iocchi, L., Kraetzschmar, G., Lima, P., Matteucci, M., Nardi, D., Schiaffonati, V. (2014). “The RoCKIn@Work Challenge”, *Atti della “45th International Symposium on Robotics (ISR/Robotik 2014)”*, Monaco, Germania, June 2-3 2014, p. 328-333.
6. Schiaffonati, V., Verdicchio, M. (2012). “What Bridges and Software Tell Us about Philosophy of Engineering”, *Proceedings of “JPET-2012”*, University of Chinese Academy of Sciences, China, November 2-4 2012, p. 101-102.

7. Schiaffonati, V., Verdicchio, M. (2011). "Is Computer Science Made Scientific by its Experiments?", *Proceedings of "History and Philosophy of Computing"*, Ghent University, Netherlands, November 7-10 2011, p. 79-82.
8. Schiaffonati, V. (2009). "Future Reflective Practitioners: The Contribution of Philosophy", *Proceedings of "SPT 2009" Converging Technologies, Changing Societies (16th International Conference of the Society for Philosophy and Technology)*, University of Twente, Netherlands, July 8-10 2009, p. 232-233.
9. Schiaffonati, V. (2008). "From Philosophy of Science to Philosophy of Engineering: The Case of AI", *Proceedings of "WPE – 2008" (Workshop on Philosophy and Engineering)*, Royal Academy of Engineering, London, UK, November 10-13 2008, p. 46-47.
10. Amigoni, F., Della Torre, S., Schiaffonati, V. (2006). "Yet Another Version of Minerva: The Isola Comacina Virtual Museum", *Proceedings of "ECAI2006 (Seventeen European Conference on Artificial Intelligence) Workshop on Intelligent Technologies for Cultural Heritage Exploitation"*, Università di Trento, Riva del Garda, Italy, August 28 2006, p. 1-5.
11. Amigoni, F., Schiaffonati, V. (2005). "Machine Ethics and Human Ethics: A Critical View". *Proceedings of AAAI Fall Symposium, Technical Report FS-05-06*, AAAI Press, Arlington (VA), USA, November 4-6 2005, p. 103.
12. Amigoni, F., Schiaffonati, V. (2005). "A New Version of Minerva for Organizing Archeological Museums", *Atti dell'AI\*IA (Associazione Italiana per l'Intelligenza Artificiale), Workshop on Cultural Heritage*, Centro Copie Bicocca Editrice, Milano, Italy, 2005.
13. Amigoni, F., Schiaffonati, V. (2005). "Using Artificial Intelligence for Supporting Museum Organization", *Atti del Multimedia.information@design for cultural heritage*, Aracne Editrice, Roma, Italy, 2005, p. 127-131.
14. Amigoni, F., Schiaffonati, V. (2003). "The Minerva Multiagent System for Supporting Creativity in Museums Organization.". *Proceedings of "IJCAI2003 (Eighteenth International Joint Conference on Artificial Intelligence) Workshop on Creative Systems: Approaches to Creativity in AI and Cognitive Science"*, IJCAI, Acapulco, Mexico, August 9-10 2003, p. 65-74.
15. Amigoni, F.; Schiaffonati, V. (2003). "The Minerva Multiagent System for Museum Organization". *Atti del "AI\*IA (Associazione italiana per l'intelligenza artificiale) Workshop on Artificial Intelligence for the Cultural Heritage"*, Servizio Editoriale Universitario di Pisa, Italy, September 23 2003, p. 55-59.
16. Amigoni, F., Schiaffonati, V., Somalvico, M. (2002). "A Theoretical Approach to Human-Robot Interaction Based on the Bipolar Man Framework". *Proceedings of "Eleventh IEEE International Workshop on Robot and Human Interactive Communication 2002 (ROMAN2002)"*, IEEE Press, Berlin, Germany, September 25-27 2002, p. 183-188.
17. Amigoni, F., Schiaffonati, V., Somalvico, M. (2002). "Multiagent Systems for Supporting and Representing Social Creativity in Science.". *Proceedings of "AISB'02 (The Society for the Study of Artificial Intelligence and Simulation of Behaviour) Symposium on Artificial Intelligence and Creativity in Arts and Science"*, The Society for the Study of Artificial Intelligence and Simulation of Behaviour, London, UK, April 3-5 2002, p. 3-11.
18. Amigoni, F., Schiaffonati, V., Somalvico, M. (2001). "Minerva: An Artificial Intelligent System for Composition of Museums". *Proceedings of "International Cultural Heritage Informatics Meeting (ICHIM01)" Volume 2 (Short Papers/Posters and Demos)*, Milan, Italy, Septemebr 3-7 2001, p. 389-398.
19. Amigoni, F., Schiaffonati, V., Somalvico, M. (2001). "Multiparadigmatic Cooperating Sensory Agents for Modelling Complex Systems" (invited article). *Proceedings of "First International Workshop on Advanced Environmental Sensing and Monitoring Technologies"*, Società Editrice Esculapio, Milan, Italy, June 26-28 2001, p. 35-39.
20. Amigoni, F., Schiaffonati, V., Somalvico, M. (1999). "Some Ethical Aspects of Agency Machines Based on Artificial Intelligence". *Proceedings of "Fourth ETHICOMP International Conference on Social and Ethical Impacts"*

of *Information and Communication Technologies*”, ISBN 88-900396-0-4 and Abstract Book, Luiss “Guido Carli”, Roma, Italy, October 6-8 1999, p. 1-2.

21. Amigoni, F., Schiaffonati, V., Somalvico, M. (1999). “Dynamic Agencies and Creative Scientific Discovery”. *Proceedings of “AISB’99 (The Society for the Study of Artificial Intelligence and Simulation of Behaviour) Symposium on Artificial Intelligence and Scientific Creativity*”, Edinburgh, UK, April 6-9 1999, p. 72-81.

## Book Reviews

1. Schiaffonati, V. (2011). “Review of the book *Philosophy and Engineering. An Emerging Agenda*”, in *International Studies in the Philosophy of Science*, 25 (1), p. 89-92.
2. Arrighi, C., Schiaffonati, V. (2006). “Review of the book *Representation and Invariance of Scientific Structures*”, in Galavotti, M. (ed.), *Cambridge and Vienna, Frank. P. Ramsey and the Vienna Circle*, Vienna Circle Institute Yearbook 12, Springer, p. 229-235.

## Refereed Conference Presentations

1. Amigoni, F., Schiaffonati, V. (2018). “*The Role of Prediction in Developing Artificial Intelligence Systems*”, MBR18 (Model-Based Reasoning in Science and Technology), Sevilla, October 24-26 2018.
1. Schiaffonati, V. (2017). “Engineering Knowledge and Experimental Method”, *SPT 2017 (Society for Philosophy of Technology Biannual Meeting)*, Darmstad, 14-17 giugno 2017.
2. Schiaffonati, V., Verdicchio, M. (2016). “Why a Techno-scientific Perspective Could Be Good for the Philosophy of Computer Science”, *LACAP 2016 (Annual Meeting International Association of Computing and Philosophy)*, Ferrara, June 14-17 2016.
3. Schiaffonati, V. (2016). “Philosophy of Engineering and the Quest for a Novel Notion of Experimentation”, *fPET 2016 (Forum on Philosophy, Engineering and Technology)*, Nurberg, May 18-20 2016.
4. Amigoni, F., Schiaffonati, V. (2015). “Explorative Experiments in Autonomous Robotics”, *MBR15 (International Conference in Model-Based Reasoning in Science and Technology. Theoretical and Cognitive Issues)*, Sestri Levante, Italy, June 25-28 2015.
5. Ferrario, R., Schiaffonati, V. (2015). “Suppes’ latest production: probabilistic empiricism and experimental practices beyond formal methods”, *15th Congress of Logic, Methodology and Philosophy of Science (CLMPS 2015)*, Helsinki, Finland, August 3-8 2015.
6. Schiaffonati, V., Verdicchio, M. (2014). “Rethinking Experiments in a Socio-technical Perspective: The Case of Software Engineering”, *LACAP (Annual Meeting International Association for Computing and Philosophy) 2014*, Anatolia College/ACT, Thessaloniki, Greece, July 2-4 2014.
7. Amigoni, F., Luperto, M., Schiaffonati, V. (2014). “Towards Generalization of Experimental Results for Autonomous Robots”. *IAS-13 (Thirteen International Conference on Intelligent Autonomous Systems) Workshop on “New Research Frontiers for Intelligent Autonomous Systems (NRF-IAS-2014)”*, Venezia, Italy, July 18-19 2014.
8. Amigoni, F., Bonarini, A., Fontana, G., Matteucci, M., Schiaffonati, V. (2014). “To What Extent are Competitions Experiments? A Critical View”. *ICRA2014 (IEEE International Conference on Robotics and Automation) Workshop on “Epistemological Issues in Robotics Research and Research Result Evaluation”*, Hong Kong, China, June 5 2014.
9. Pelillo, M., Scantamburlo, T., Schiaffonati, V. (2013). “Computer Science between Science and Technology: A Red Herring?”, *International Conference History and Philosophy of Computing*, Paris, October 28-31 2013.
10. Schiaffonati, V. (2012). “Role and Relevance of Experimentation in Informatics”, *Workshop “On the Role and Relevance of Experimentation in Informatics”*, *European Computer Science Summit*, Barcelona, November 19-22 2012.

11. Amigoni, F., Schiaffonati, V. (2012). “Autonomous Mobile Robots as Technical Artifacts: A Discussion of Experimental Issues”, *MBR12 (International Conference in Model-Based Reasoning in Science and Technology. Theoretical and Cognitive Issues)*, Sestri Levante, June 21-23 2012.
12. Amigoni, F., Schiaffonati, V., M. Verdicchio (2012). “An Analysis of Experimental Trends in Autonomous Robotics Papers”, *ICRA2012 (IEEE International Conference on Robotics and Automation) Workshop on “The Conditions for Replicable Experiments and Performance Comparison in Robotics Research”*, Saint Paul, May 18 2012.
13. Schiaffonati, V. (2011). “How Philosophy Can Enhance the Critical Abilities of Computer Engineering Students”, *7<sup>th</sup> European Computer Science Summit (ECSS 2011)*, Milan, November 8-9 2011.
14. Schiaffonati, V., Verdicchio, M. (2011). “The Influence of Engineering Theory and Practice on Philosophy of AI”, *Philosophy and Theory of Artificial Intelligence*, Thessaloniki, October 3-4 2011.
15. Amigoni, F., Reggiani, M., Schiaffonati, V. (2010). “Simulations Used as Experiments in Autonomous Mobile Robotics”, *ICRA2010 (IEEE International Conference on Robotics and Automation) Workshop on “The Role of Experiments in Robotics Research”*, Anchorage, May 3 2010.
16. Mazza, D., Schiaffonati, V. (2010). “Exploring the World: Why Computer Simulations are not Just Implemented Thought Experiments”, *International Workshop on Thought Experiments and Computer Simulations*, Paris, March 11-13 2010.
17. Carassa, A., Colombetti, M., Schiaffonati, V. (2009). “Joint Activities: A Deontic Approach”, *3rd Joint Action Meeting*, Amsterdam, July 27-29 2009.
18. Amigoni, F., Reggiani, M., Schiaffonati, V. (2009). “In Search of Good Experimental Methodologies in Robotics: Getting Inspiration from Natural Science?”, *EURON (European Robotics Research Network) 2009 Annual Meeting Workshop on “Good Experimental Methodology”*, Leuven, April 6 2009.
19. Amigoni, F., Reggiani, M., Schiaffonati, V. (2009). “To What Extent Are Robotic Experiments Experiments? On the Utility of Looking at the Philosophy of Science”, *ICAR2009 (the 14th International Conference on Advanced Robotics) Workshop on “Benchmarking in Mobile Robotics: State-of-the-Art, Open Challenges, and Research Roadmap”*, Munich, June 22 2009.
20. Schiaffonati, V. (2009). “Multiagent-based Simulations as *In Virtuo* Experiments: Strategies for Reliability”, *Models and Simulations 3*, University of Virginia, Charlottesville VA, March 6-8 2009.
21. Schiaffonati, V. (2006). “Representing and Experimenting: Toward an Epistemology of Computer Simulation”, *International Conference on Computing and Philosophy (ECAP’06)*, Trondheim, June 22-24 2006.
22. Amigoni, F., Schiaffonati, V. (2006). “Multiagent-Based Simulation in Biology: A Critical Analysis”. *International Conference on Model-Based Reasoning*, Sun Yat-sen University, Guangzhou, July 3-5 2006.
23. Amigoni, F., Schiaffonati, V. (2004). “A Multiagent Approach to Modelling Complex Phenomena”. *International Conference on Model-Based Reasoning in Science and Engineering (MBR04)*, Università di Pavia, Pavia, December 16-18 2004.
24. Amigoni, F., Gatti, N., Schiaffonati, V. (2003). “Marco Somalvico’s Legacy on Multiagent Systems”. *Workshop on Robotics in Memory of Marco Somalvico*, Padova, July 6 2003.
25. Amigoni, F., Schiaffonati, V., Somalvico, M. (2002). “The Bipolar Man Framework for Human-Centred Intelligent Systems”. *Sixth International Conference on Knowledge-Based Intelligent Information and Engineering Systems (KES2002)*, Università di Milano, Crema, September 16-18 2002.
26. Schiaffonati, V. (2002). “Agencies: a New Approach to the Foundation of Artificial Intelligence”. *Computing and Philosophy Conference (CAP02)*, Carnegie Mellon University, Pittsburgh (PA), August 8-10 2002.



27. Amigoni, F., Schiaffonati, V., Somalvico, M. (2001). "Multiagent System Based Scientific Discovery Within Information Society". *International Conference on Model-Based Reasoning: Scientific Discovery, Technological Innovation, Values (MBR01)*, Università di Pavia, Pavia, May 17-19 2001.
28. Amigoni, F., Schiaffonati, V., Somalvico, M. (2001). "Common Sense and Knowledge Representation in Artificial Intelligence" (invited talk). *Tavola rotonda su Common Sense in Philosophy and Science*, Naples, November 8-9 2001.
29. Amigoni, F., Schiaffonati, V., Somalvico, M. (1998). "A Multilevel Architecture of Creative Dynamic Agency". *International Congress of Model-based Reasoning in Scientific Discovery (MBR98)*, Università di Pavia, Pavia, December 17-19 1998.
30. Amigoni, F., Schiaffonati, V., Somalvico, M. (1998). "Dynamic Agencies and Creativity". *International Congress on Discovery and Creativity*, Università di Ghent, Ghent, May 14-16 1998.

### Technical Reports

1. Andujar, C., Schiaffonati, V., Schreiber, F., Tanca, L., Tedre, M., van Hee, K., van Leeuwen, J. (2013). *The Role and Relevance of Experimentation in Informatics*, Informatics Europe Technical Report.

### Others Publications

1. Amigoni, F., Schiaffonati V. (eds.) (2012). *Marco Somalvico*, Maggioli Editore, Santarcangelo di Romagna.
2. Amigoni, F., Schiaffonati V. (2007). "IA e musei: L'allestimento automatico" in Bandini, S., Bordoni, L., Mantegari, G. (eds.), *Atti della "Winter School Intelligenza Artificiale nei Beni Culturali"*, ENEA, December 2007, p. 103-117.
3. Schiaffonati, V. (2004). Interview on "Intelligenza artificiale per i beni culturali" in Bordoni, L. (ed.), *Kermes la rivista del restauro*, Nardini Editore, Firenze, January-March 2004, p. 14-15.
4. Schiaffonati, V. (2003), "Simulazioni intelligenti: gli orizzonti dell'intelligenza artificiale", *Golem*, March 2003.
5. Amigoni, F., Schiaffonati, V., Somalvico, M. (2001). "Il museo virtuale Minerva per il museo del design" in Moretti, D., Pallabazzer, J. A., Rebaglio A. (eds.); *Il Museo del Design di Milano: il museo della rete e la rete di musei*, POLI.design, p. 63-65.

### INVITED TALKS AND ARTICLES

- |      |  |
|------|--|
| 2019 | Invited talk, <i>Conference on Artificial Intelligence: Business, Law, Ethics and Rights across the Ocean</i> , International Summer School Law and Bilateral Trade, Università degli Studi di Milano e Université de Montréal, Università degli Studi di Milano, June 3 2019. |
| 2019 | Invited talk "Explorative Experiments in Computer Engineering", <i>ETH Philosophy Colloquium</i> , ETH Zurich, May 29 2019.  |
| 2019 | Invited talk "Reproducibility in Artificial Intelligence: Experimentation in the Artificial", <i>Séminaire Histoire et Philosophie de l'Informatique et du Calcul (HEPIC)</i> , IHSPT, Paris, April 10 2019.   |
| 2019 | Invited participation <i>DigHum, Vienna Workshop on Digital Humanism</i> , Faculty of Informatics - TU Wien, April 4-5 2019.   |
| 2019 | Invited talk "Computer, robot ed esperimenti: all'alba di un nuovo metodo sperimentale?", <i>Laboratorio di Sociologia e Antropologia della Scienza</i> , Dipartimento di Filosofia, Università degli Studi di Milano, March 13 2019.  |

- 2019 Invited talk “Integrare epistemologia ed etica per affrontare la vulnerabilità dei sistemi robotici”, Workshop *Interconnettività e Resilienza*, Alma Mater Studiorum Università di Bologna, February 21 2019.
- 2019 Intervento talk “Etica e Intelligenza Artificiale”, *Cross-Lab*, Dipartimento di Ingegneria dell’Informazione, Università di Pisa, February 11 2019.
- 2018 Invited talk to the conference *A.I. am Human. Intelligenza artificiale e umana a confronto*, Università degli Studi di Milano Bicocca, 18 Novembre 2018.
- 2018 Invited talk to the conference *Europe Regulates Robotics*, Scuola Superiore Sant’Anna Pisa, September 27 2018.
- 2018 Invited talk to the presentation of the book *Filosofia della Scienza* by Maria Carla Galavotti and Raffaella Campaner, Alma Mater Università di Bologna, May 17 2018.
- 2018 Invited talk to the seminars series *Seminari di Cultura Matematica*, Politecnico di Milano, May 9 2018.
- 2018 Invited talk to the seminars series *Subjectivity, Self, and Self-Consciousness*, Università Cattolica di Milano, March 8 2018.
- 2018 Invited talk to the round table for the presentation of the book *Slow Tech* by Norberto Patrignani and Diane Whitehouse, Centro Politeia, Università degli Studi di Milano, February 19 2018.
- 2018 Invited talk at *JOSEPHS*, Friedrich-Alexander-Universität Erlangen-Nürnberg e Fraunhofer IIS, Nuremberg January 23 2018.
- 2017 Keynote speaker at *ECAL 2017 the European Conference on Artificial Life*, Lyon, September 4- 8 2017.
- 2016 Invited talk to the workshop *The Humane Use of Machine Learning*, ECLT, Università Ca’ Foscari, Venezia, December 16 2016.
- 2016 Invited talk to the *Graduate Students Seminars* Department of Technology, Policy and Managment, TU Delft, November 22 2016.
- 2016 Invited talk for the *Philosophy Colloquium*, Department of Technology, Policy and Managment, Philosophy Section, TU Delft, November 21 2016.
- 2016 Invited talk for the series of seminars *InformEtica* Università degli Studi di Milano-Bicocca, April 19 2016.
- 2015 Invited talk to the workshop *In Silico Medicine*, IESE Business School Barcelona, June 3 2015.
- 2015 Invited talk to the workshop *Philosophical Aspects of Computer Science*, European Centre for Living Technology, Università Ca’ Foscari, Venice, March 6 2015.
- 2015 Invited talk to the workshop *Robustness II – Engineering Science*, Campus Biomedico, Rome, February 5-6 2015.

- 2015 Invited talk to the ECM Course *Innovation in Infectious Diseases*, Istituto Nazionale per le Malattie Infettive Lazzaro Spallanzani, Rome, December 17-18 2015.
- 2015 Invited talk in the Master Program in *Comunicazione della Scienza e dell'Innovazione Sostenibile*, May 28 2015.
- 2014 Invited talk for the *Conference Scuola di Ingegneria e Architettura Alma Mater Studiorum Università di Bologna* for the volume presentation "*Scienza e tecnica nel settecento e nell'ottocento*", October 9 2014.
- 2014 Invited talk to the conference *From in Vitro to in Silico: Computer Simulations in the Life Sciences*, Institute for Advances Study on Media Cultures of Computer Simulation, Leuphana University Lüneburg, June 19-21 2014.
- 2014 Invited talk to the conference *New Technologies as Social Experiments*, Delft University, January 24-25 2014.
- 2012 Invited talk to the *Symposium on the Occasion of Patrick Suppes 90th Birthday*, Stanford University, March 11 2012.
- 2012 Invited talk "Good experimental methodologies in computing", DAIS Università Ca' Foscari di Venezia, January 27 2012.
- 2010 Invited talk to the workshop *Philosophy of Information and Computing Sciences*, Lorentz Center, Leiden, February 12 2010.
- 2009 Invited talk "To what extent are robotic experiments experiments? On the utility of looking at the philosophy of science", *Workshop on Benchmarking in Mobile Robotics, 14th International Conference on Advanced Robotics*, Munich, June 22 2009.
- 2007 Invited article for the volume *Enciclopedia della Scienza e della Tecnica*, Istituto della Enciclopedia Italiana, Roma, 2007.
- 2006 Invited talk "Between Philosophy and AI", Dalle Molle Institute for Artificial Intelligence (IDSIA), September 26 2006.
- 2004 Invited talk "Representing and Simulating: Toward an Epistemology of Computer Simulation", *Suppes Center for the Interdisciplinary Study of Science and Technology (SCISST)*, Stanford University, October 25 2004.
- 2004 Invited article for the volume *Prospettive sulla coscienza*, Carocci Editore, 2004.
- 2004 Invited talk "Intelligenza artificiale per i beni culturali", *Congresso Nazionale Intelligenza Artificiale per la Conservazione e il Restauro*, March 25 2004.
- 2004 Invited article for the journal *Kermes – La rivista del restauro*, 2004.
- 2003 Invited article for the journal *AI\*LA Notizie*, 2003.
- 2003 Invited article for the volume *Storia della scienza vol. IX*, Istituto della Enciclopedia Italiana, 2003.
- 2003 Invited talk "Marco Somalvico's Legacy on Multiagent Systems", *Workshop on Robotics in Memory of Marco Somalvico*, July 6 2003.
- 2001 Invited paper for the volume *Communications Through Virtual Technology: Identity, Community, and Technology in Internet Age*, 2001.
- 2001 Invited talk "Senso comune e rappresentazione della conoscenza in intelligenza artificiale", *Tavola Rotonda su Common Sense in Philosophy and Science*, November 9 2001.

- 2001 Invited talk “Aspetti antropologici dell’intelligenza artificiale”, *Congresso Nazionale Mathesis 2001. Per una nuova scuola: programmi, formazione e tecnologie alternative per l’insegnamento della matematica*, November 24 2001.
- 2001 Invited article for the journal *Sensors and Actuators: A Physical*, 2001.
- 2000 Invited talk “The Galileian Approach for the Representation of Knowledge in AI”, *Formal Reasoning Group*, Computer Science Department, Stanford University, November 15 2000.

## RESEARCH GRANTS AND PROJECTS

- 2019-2021 Member of the Ethical Advisory Board of the European Project AI4EU (H2020).
- 2012-2015 Member of the European Project “Robot Competitions Kick Innovation in Cognitive Systems and Robotics” (FP7-EU-601012).
- 209-2014 Member of the Third European Network for the Advancement of Artificial Cognitive Systems, Interaction and Robotics (EUCogIII).
- 2009-2012 Member of the Second European Network for the Advancement of Artificial Cognitive Systems, Interaction and Robotics (EUCogII).
- 2007 Principal Investigator of the research “The Isola Comacina Virtual Museum”, funded by Italian National Council of Research (CNR).
- 2005 Principal Investigator of the research “Artificial Intelligence for Museums Organization”, funded by Italian National Council of Research (CNR).

## PROFESSIONAL SERVICE

- 2020 Member of the program committee of CiE (Computability in Europe) conference.
- 2019 Member of the steering committee of fPET (Forum on Philosophy, Engineering, and Technology).
- 2019 Member of the program committee of Hapoc (History and Philosophy of Computing) conference.
- 2018 Member of the scientific board and organizer (with Giuseppe Primiero) of the workshop “Philosophy and Technologies of simulations”, *Politecnico di Milano*, November 22-23 2018.
- 2017 Member of the scientific board and organizer, “Putting Ethics into Work: Educating the Future Professionals in Engineering, Architecture and Design”, November 8, 2018, Politecnico di Milano.
- 2018 Chair of the Idea League Ethics working group.
- 2018-19 Member of the commission for the revision of the Code of Ethics and Conduct, Politecnico di Milano.
- 2018 Member of the program committee of “Analogical Reasoning in Science and Mathematics”, Munich Center for Mathematical Philosophy.

- 2018 Member of the program committee of Automotive 2018 International Conference of Electrical and Electronic Technologies for Automotive, Politecnico di Milano.
- 2018 Member of the programm committee IFIP Summer School, Privacy and Identity Management, Vienna.
- 2018 Member of the scientific board and organizer (with Raffaella Campaner) of the workshop “For a bottom-up epistemology. A workshop in honour of Maria Carla Galavotti”, *CUEB*, June 7-9 2018.
- 2018 Member of the steering council of HAPOC (Commission for the History and Philosophy of Computing).
- 2018 Member of the program committee of HAPOP 2018 Fourth Symposium on the History and Philosophy of Programming.
- 2017 Member of the scientific board and organizer, Ethics for Technological Innovation, Politecnico di Milano, October 19 2017.
- 2017 Member of the scientific board and organizer (with Andreas Kaminski, Micheal Resch and Giuseppe Primiero) of the summer school “On Computer Simulation Methods”, *High Performance Computing Center Stuttgart (HLRS)*, September 5-29 2017.
- 2017 Member of the program committee of Philosophy and Theory of Artificial Intelligence Conference (PT-AI 2017)
- 2017 Member of the Global Initiative for Ethical Consideration in the Design of Autonomous Systems, IEEE Standards Association.
- 2017 Coordinator Member, CINI National Laboratory Computer Science and Society.
- 2017 Member of the IFIP Working Group on Social Accountability and Computing (WG9.2).
- 2017 Member of META Social Sciences and Humanities for Science and Technology, Politecnico di Milano.
- 2016 Coordinator Member of EthosIT, Network for a Responsible and Ethical Computer Science.
- 2016 Referee for research and innovation activities at the *Provincia Autonoma di Trento (IT)*.
- 2016 Member of the program committee of the *Forum on Philosophy, Engineering & Technology (fPET-2016)*.
- 2014 Member of the program committee of *LACAP (Intenational Association for Computing and Philosophy) Conference*.
- 2014 Member of the program committee of the *Forum on Philosophy, Engineering & Technology (fPET-2014)*.
- 2013- Member of the editorial board of the *Journal of Experimental and Theoretical Artificial Intelligence*.

- 2013 Member of the program committee of the *Philosophy and Theory of Artificial Intelligence Conference* (PT-AI 2013).
- 2013- Editor in chief of the Scopus indexed journal *Mondo Digitale-rassegna critica del settore ICT*.
- 2012 Member of the program committee of the *Forum on Philosophy, Engineering & Technology* (fPET-2012).
- 2012 Organizer and chair of the workshop “On the Role and Relevance of Experimentation in Informatics”, *European Computer Science Summit*, Barcelona, November 19-22 2012.
- 2011 Member of the program committee of the *Philosophy and Theory of Artificial Intelligence Conference* (PT-AI 2011).
- 2010 Member of the program committee of the *Forum on Philosophy, Engineering & Technology* (fPET-2010).
- 2010 Referee for the *Austrian Science Fund* (FWF).
- 2004- Referee for *European Journal of Philosophy of Science, Minds and Machines, Philosophy & Technology, Mind&Society, Science and Engineering Ethics, Pattern Recognition Letters, Evolutionary Computation, ACM-CHI 2012, CogSci2014, Cognitive Processing, Cognitive Systems Research, Springer SAPERE*.
- 2000-2006 Member of the editorial board of *Networks - journal of the philosophy of artificial intelligence and cognitive sciences*.

## **PROFESSIONAL ACTIVITIES**

- 2005-2007 Tutor for an interdisciplinary research project “Progetto Mente” for university students at Collegio di Milano, Collegio delle Università Milanesi.
- 2001 Qualification for teaching Philosophy and History in Italian high schools.

## **MEDIA AND OUTREACH**

- 2014 Video interview on the Turing Test, Politecnico di Milano, Expert of the week.
- 2016 Radio interview (Radio Tre Scienza) on the history of Artificial Intelligence (January 20 2016).
- 2017 Tempo di Libri Milan 2017, Focus, Round table with Daniela Lucangeli and Margherita Fronte on Human Intelligence and Artificial Intelligence (April 21 2017).
- 2017 CuriosaMente: Il mondo dei robot. A dialogue on robotic ethics with Domenico Sorrenti and Riccardo Oldani, Villa di Breme-Forno, Università degli Studi di Milano-Bicocca (May 25 2017).
- 2017 Tv Interview (Tgcom) on the Code of Ethics for Autonomous Vehicles (July 13 2017).
- 2017 Video interview on the Ethics and Technology, Politecnico di Milano, Expert of the week.
- 2019 Interview on Ethics and Robotics, Stampa Toscana.
- 2019 Interview on Ethics and new technologies, journal *Persone e Conoscenze*, ESTE.

- 2019 Cities Coalition for Digital Rights – participation, privacy, data protection and security. Panel on Ethics, Technology and Rights, Palazzo Marino, Sala dell’Orologio, Comune di Milano (March 14 2019).

## LANGUAGES

Italian (native), English (complete professional knowledge).

## TEACHING

### Courses as Instructor

- 2019 Instructor of the PhD course “*Computer Ethics*”, Università di Pisa, Dipartimento di Ingegneria dell’Informazione.
- 2019 Course coordinator (with Simona Chiodo) of the course “*Empowering Imagination*”, Idea League Summer School, Politecnico di Milano, Milano.
- 2018 Instructor of the PhD course “*Experimentation in the Digital World*”, Friedrich-Alexander-Universität Erlangen-Nürnberg Lehrstuhl für Wirtschaftsinformatik.
- 2018 Course coordinator and instructor of the interdoctoral course “*Ethics, Technology and Society*”, PhD School, Politecnico di Milano, Milano.
- 2019-2016 Co-instructor of the interdoctoral course “*Ethics in Research*”, PhD School, Politecnico di Milano, Milano.
- 2019-2012 Instructor of the course “*Philosophical Issues of Computer Science*”, in the Master Program in Computer Engineering, School of Industrial and Information Engineering, Politecnico di Milano, Milan, Italy.
- 2019-2016 Instructor of the course “*Computer Ethics*”, in the Master Program in Computer Engineering, School of Industrial and Information Engineering, Politecnico di Milano, Milan, Italy.
- 2015-2016 Instructor of the doctoral course “*Philosophy of Experimentation*”, for the Doctoral Program in Computer Science, Università Ca’ Foscari Venezia.
- 2015 Co-instructor (with Fabio A. Schreiber) of the Doctoral course “*Experimental methods and techniques in engineering*”, for the Doctoral School, Politecnico di Milano, Milan, Italy.
- 2013 Co-instructor (with Fabio A. Schreiber) of the Doctoral course “*Experimental methods and techniques in computer science and engineering*”, in the Doctoral Program in Information Technologies, Doctoral School, Politecnico di Milano, Milan, Italy.
- 2013 Course coordinator and instructor of the Doctoral course “*Mastering the leadership, organizational, and emotional challenges of a career in research and teaching*”, Doctoral School, Politecnico di Milano, Milano.
- 2012 Co-instructor (with Francesco Amigoni) of the Doctoral course “*Computing and Science: What Can They Do for Each Other?*”, in the Doctoral Program in Information Technologies, Doctoral School, Politecnico di Milano, Milan, Italy.
- 2011-2007 Instructor of the course “*Temî filosofici dell’informatica*”, in the Master Program in Computer Engineering, School of Information Engineering, Politecnico di Milano, Milan, Italy.
- 2009-2005 Instructor of the course “*Temî filosofici dell’ingegneria e della scienza*”, in the Master Program in Mathematical Engineering, School of System Engineering, Politecnico di Milano, Milan, Italy.

- 2007-2006 Co-instructor (with Francesco Amigoni) of the Doctoral course “*Technological Innovation and Artificial Intelligence for Cultural Heritage*”, in the Doctoral Program in Design and Technologies for Cultural Heritage, Politecnico di Milano, Milan, Italy.
- 2006 Co-instructor (with Marco Colombetti) of the Doctoral course “*Philosophical Foundations of Artificial Intelligence*”, in the Doctoral Program in Information Technologies, Politecnico di Milano, Milan, Italy.
- 2006 Instructor of the Doctoral course “*Philosophy of Science*”, in the PhD Program in Communication Sciences, Faculty of Communication Sciences, Università della Svizzera Italiana, Lugano, Switzerland.
- 2006 Instructor of the course “*Filosofia del design*” in the Program in Industrial Design, School of Design, Politecnico di Milano, Milan, Italy.
- 2006-2005 Instructor of the course “*Filosofia della natura, della scienza e della tecnica*”, Institute for Applied Philosophy, Facoltà di Teologia, Lugano, Switzerland.
- 2005-2003 Instructor of the course “*Epistemologia del progetto*”, in the Program in Industrial Design, School of Design, Politecnico di Milano, Milan, Italy.
- 2005 Instructor of the course “*Logica e filosofia della scienza*”, in the Program in Computer Science Engineering, School of Medicine, Università della Magna Graecia, Catanzaro, Italy.
- 2004 Instructor of the course “*Teorie e sistemi di intelligenza artificiale*”, in the Program in Industrial Design, School of Design, Politecnico di Milano, Milan, Italy.
- 2003-2004 Instructor of the course “*Epistemologia del progetto*”, in the Program in Industrial Design, School of Design, Politecnico di Milano, Milan, Italy.
- 2003 Instructor of the course “*Intelligenza Artificiale*”, in the Program in Industrial Design, School of Design, Politecnico di Milano, Milan, Italy.

### **Courses as Teaching Assistant**

- 2019-2004 Teaching assistant in the course “*Artificial Intelligence*”, in the Master Program in Computer Engineering, School of Industrial and Information Engineering, Politecnico di Milano, Milano, Italy.
- 2012 Teaching assistant in the course “*Robotics*”, in the Master Program in Computer Engineering, School of Information Engineering, Politecnico di Milano, Milano, Italy.
- 2007 Teaching assistant in the course “*Models of Communication*”, in the Master Program in Technologies of Communication Science, Faculty of Communication Science, Università della Svizzera Italiana, Lugano, Switzerland.
- 2005-2003 Teaching assistant in the course “*Filosofia della natura, della scienza e della tecnica*”, Institute for Applied Philosophy, Facoltà di Teologia, Lugano, Switzerland.
- 2002-2000 Teaching assistant in the course “*Intelligenza Artificiale*”, in the Program in Industrial Design, School of Design, Politecnico di Milano, Milan, Italy.