

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 and Information Ethics, Ethics of Technology and Engineering.

EDUCATION

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

ACADEMIC APPOINTMENTS

- 2021- **Habilitation Full Professor of Logic and Philosophy of Science.**
- 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

- June 2024 **Digital Humanism Senior Fellow**, Institute for Human Sciences in Vienna (IWM), Austria.
- June 2024 **Visiting Professor**, Informatics, TU Wien, Austria.
- July 2022 **Fellow**, Ermete Center, University of Stuttgart.
- January 2019 **Visiting Professor** at Dipartimento di Ingegneria dell'Informazione, Università di Pisa, invited by Prof. Giuseppe Anastasi.
- January 2018 **Visiting Professor** at Friedrich-Alexander-Universität Erlangen-Nürnberg Lehrstuhl für Wirtschaftsinformatik, invited by Dr. Albrecht Fritzsche.
- Nov 2016 **Visiting scholar** at Department of Technology, Policy and management, Philosophy Section, TU Delft, invited by Prof. Neelke Doorn.
- Dec 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

- June 2024 **Digital Humanism Senior Fellow**, Institute for Human Sciences in Vienna (IWM), Austria.
- July 2022 **Fellowship** at the Ermete Center to visit University of Stuttgart.
- October 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.

RESEARCH GRANTS AND PROJECTS

- 2023-2026 **Task leader** HE Project AI4REALNET (grant agreement No 101119527).
- 2023-2025 **Co-leader WP 4.2** Foundations of adaptive multi-agent decision making, Spoke Adaptive AI, PNNR FAIR.
- 2022-2024 **Local coordinator**, PRIN "BIAS, RISK, OPACITY in AI: design, verification and development of Trustworthy AI (BRIO)", financed by Italian Ministry of University.
- 2022-2024 **Member** of the project "Addressing online scientific misinformation in high schools", financed by Fondazione Cariplo.
- 2021-2023 **Co-supervisor** (with Andrea Aliverti) of the research project "AI and responsibility" in the program "Etica e tecnologie emergenti", Postdoctoral Researcher Stefano Canali (research project co-funded by Fondazione Silvio Tronchetti Provera and Politecnico di Milano).
- 2019-2021 **Member** of the European Project "Ethics4EU" (Erasmus+).
- 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).
- 2009-2014 **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

- 2007 Systems, Interaction and Robotics (EUCogII).
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).

PUBLICATIONS

Monographs

1. Schiaffonati, V. (2020). *Robot, Computer ed Esperimenti*, Meltemi, Milano.
2. 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. Fossa, F., Schiaffonati, V., Tamburrini, G. (2021). *Automi e persone. Introduzione all’etica dell’intelligenza artificiale e della robotica*, Carocci, Roma.
2. Chiodo, S., Schiaffonati, V. (2021). *Italian Philosophy of Technology*, Springer.
3. Amigoni, F., Schiaffonati, V. (2014). *Methods and Experimental Techniques in Computer Engineering*, SpringerBriefs in Applied Sciences and Technology, Springer.
4. Di Bernardino, E., Lucchetti, R., Schiaffonati, V. (2011). *Temi filosofici dell’ingegneria e della scienza*, Maggioli Editore, Santarcangelo di Romagna.
5. 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. (2023). “Computer simulations and surrogate reasoning for the design of new robots”, *Synthese* 202 (5) <https://doi.org/10.1007/s11229-023-04220-4>
2. Werthner, H., Stanger, A., Schiaffonati, V., Knees, P., Hardman, L., Ghezzi, C. (2023). “Digital Humanism: The Time is Now”, *IEEE Computer*, 56(1), 138-142.
3. Canali, S., Schiaffonati, V., Aliverti, A. (2022). “Challenges and recommendations for wearable devices in digital health: Data quality, interoperability, health equity, fairness”, *Plos Digital Health*, 1(10): e0000104. <https://doi.org/10.1371/journal.pdig.0000104>
4. Schiaffonati, V. (2022). “Explorative Experiments: A Paradigm Shift to Deal with Severe Uncertainty in Autonomous Robotics”, *Perspectives on Science*; doi: https://doi.org/10.1162/posc_a_00415
5. Chiffi, D., Schiaffonati, V. (2022). “Brio”, *The Reasoner*, 16(3), 21-22.
6. Stavrakakis, I., Gordon, D., Tierney, B. et al. (2021). “The teaching of computer ethics on computer science and related degree programmes. a European survey”, *International Journal of Ethics Education* (2021). <https://doi.org/10.1007/s40889-021-00135-1>
7. Schiaffonati, V. (2021). “Computer, robot ed esperimenti”, *Aut Aut*, Il Saggiatore, 392, p. 51-62.
8. Datteri, E., Schiaffonati, V. (2019). “Robotic Simulations, Simulations of Robots”, *Minds and Machines*, 29(1), 109-125.

9. 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.
10. Amigoni, F., Luperto, M., Schiaffonati, V. (2017). "Toward generalization of experimental results for autonomous robots", *Robotics and Autonomous Systems*, Elsevier, 90, p. 4-14.
11. Schiaffonati, V. (2016). "Stretching the Traditional Notion of Experiment in Computing: Explorative Experiments", *Science and Engineering Ethics*, Springer, 22(3), p. 647-665.
12. 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.
13. Pelillo, M., Scantamburlo, T., Schiaffonati, V. (2015). "Pattern recognition between science and engineering: A red herring?", *Pattern Recognition Letters*, Elsevier, 64, p.3-10.
14. 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.
15. Schiaffonati, V., Verdicchio, M. (2014). "Computing and Experiments", *Philosophy & Technology*, Springer, 27(3), p. 359-376.
16. Schiaffonati, V. (2010). "Computer simulations ed esperimenti *in virtuo*", *Mondo Digitale*, 34, June 2010, 3-12.
17. 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.
18. 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.
19. Amigoni, F., Schiaffonati, V. (2008). "A Multiagent Approach to Modelling Complex Phenomena", *Foundations of Science*, Springer, 13(2), p. 113-125.
20. 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.
21. Schiaffonati, V. (2006). "Riflettere sui dettagli della scienza: Patrick Suppes e i modelli", *Epistemologia*, XXIX, p. 239-266.
22. Amigoni, F., Schiaffonati, V. (2004). "Artificial Intelligence for Automatic Museum Organization", *Politecnico*, Politecnico di Milano, 8, 2004, p. 138-143.
23. 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.
24. 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.
25. 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.
26. 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.
27. 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.
28. 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.
29. 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. (2022). "Integrare la bioetica con con l'etica della tecnologia per formare i professionisti del futuro", in F. Consorti & L. Montagna (eds.) *Medical professionalism e costruzione dell'identità professionale negli studenti di medicina*, Franco Angeli Milano, 188 – 199.
2. Schiaffonati, V. (2021). "Explorative Experiments and Digital Humanism: Adding an Epistemic Dimension to the Ethical Debate", in Hannes Werthner et al. (eds.) *Perspectives on Digital Humanism*, Springer, 77 – 82.
3. Schiaffonati, V. (2021). "Experimentation" in Diane P. Michelfelder and Neelke Doorn (eds.) *The Routledge Handbook of the Philosophy of Engineering*, Routledge, Taylor & Francis Group, 421 – 434.
4. Amigoni, F.; Schiaffonati, V. (2021). The Importance of Prediction in Designing Artificial Intelligence Systems. In M. Pelillo, T. Scantamburlo (eds.), *Machines We Trust*, MIT Press, 105-119.
5. Chiodo, S., Schiaffonati, V. (2021). "Italian Philosophy of Technology", in Chiodo, S., Schiaffonati, V. (2021). *Italian Philosophy of Technology*, Springer, 1-9.
6. 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.
7. 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.
8. 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.
9. Amigoni, F., Schiaffonati, V. (2017). "Models and Experiments in Robotics" in Magnani, L. Bertolotti, T. (eds.) *Springer Handbook of Model-Based Science*, Spinger, p. 799-815.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.

18. 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.
19. Schiaffonati, V. (2004). "Etica nella cultura tecnica. Tecnica e cultura della responsabilità" in Bertoldini, M. (ed.), *La cultura politecnica*, Bruno Mondadori, p. 138-142.
20. 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.
21. 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. Quaresmini, C.; Villa, E.; Breschi, V.; Schiaffonati, V.; Tanelli, M. (2023). "Qualification and Quantification of Fairness for Sustainable Mobility Policies", *2nd European Workshop on Algorithmic Fairness*, EWAFF 2023, 120-125.
2. Chiodo, S.; Arcangeli, M.; Bernadó-Mansilla, E.; Schiaffonati, V. (2020). "Beyond creativity: reflection and practice of imagination with students of technical universities", *2020 IEEE Global Engineering Education Conference (EDUCON)*, 1225 – 1229.
3. 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.
4. 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.
5. Amigoni, F. Luperto, M., Schiaffonati, V. (2014). "Toward Generalization of Experimental Results for Autonomous Robots", *Proceedings of NRF-IAS (Workshop on New Research Frontiers for Intelligent Autonomous Systems)* - ISBN:9788895872087, p. 1-7.
6. 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.
7. 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", *Proceeding of "45th International Symposium on Robotics (ISR/Robotik 2014)"*, Monaco, Germania, June 2-3 2014, p. 328-333.
8. Schiaffonati, V., Verdicchio, M. (2012). "What Bridges and Software Tell Us about Philosophy of Engineering", *Proceedings of "fPET-2012"*, University of Chinese Academy of Sciences, China, November 2-4 2012, p. 101-102.
9. 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.
10. 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.
11. 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.

12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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, Septemembr 3-7 2001, p. 389-398.
21. 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.
22. 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.
23. 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. (2022). "Guglielmo Tamburrini, "Etica delle macchine. Dilemmi morali per robotica e intelligenza artificiale", in *Lecture critiche*, APhEx 25, p. 1-12.

2. 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.
3. 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. (2023). "Complementing the normative approach of robot ethical standards: A methodological account", MBR 2023 (Model-based Reasoning), Università di Roma La Sapienza, Rome, June 6-9 2023.
2. Canali, S., Aliverti, A., Schiaffonati, V. (2023). "Data Quality as an Emerging Issue for AI: The Case of Wearable Technology", fPET 2023 (Forum Philosophy and Engineering), TU Delft, April 19-21 2023.
3. Zanotti, G., Petrolo, M., Chiffi, D., Schiaffonati, V. (2023). "Beyond reliability: values and Trustworthy AI", fPET 2023 (Forum Philosophy and Engineering), TU Delft, April 19-21 2023.
4. Quaresmini, C., Villa, E., Breschi, V., Schiaffonati, V. & Tanelli, M. (2023). "Qualification and quantification of fairness for diversity-aware and inclusive mobility", fPET 2023 (Forum Philosophy and Engineering), TU Delft, April 19-21 2023.
5. 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.
6. Schiaffonati, V. (2017). "Engineering Knowledge and Experimental Method", SPT 2017 (Society for Philosophy of Technology Biannual Meeting), Darmstad, June 14-17 2017.
7. Schiaffonati, V., Verdicchio, M. (2016). "Why a Techno-scientific Perspective Could Be Good for the Philosophy of Computer Science", IACAP 2016 (Annual Meeting International Association of Computing and Philosophy), Ferrara, June 14-17 2016.
8. 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.
9. 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.
10. 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.
11. Schiaffonati, V., Verdicchio, M. (2014). "Rethinking Experiments in a Socio-technical Perspective: The Case of Software Engineering", IACAP (Annual Meeting International Association for Computing and Philosophy) 2014, Anatolia College/ACT, Thessaloniki, Greece, July 2-4 2014.
12. 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.
13. 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.
14. 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.

15. 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.
16. 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.
17. 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.
18. Schiaffonati, V. (2011). "How Philosophy Can Enhance the Critical Abilities of Computer Engineering Students", *7th European Computer Science Summit (ECSS 2011)*, Milan, November 8-9 2011.
19. 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.
20. 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.
21. 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.
22. Carassa, A., Colombetti, M., Schiaffonati, V. (2009). "Joint Activities: A Deontic Approach", *3rd Joint Action Meeting*, Amsterdam, July 27-29 2009.
23. 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.
24. 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.
25. 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.
26. 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.
27. 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.
28. 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.
29. 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.
30. 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.
31. 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.

32. 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.
33. 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.
34. 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.
35. 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.

MAIN INVITED TALKS AND ARTICLES

- 2023 Invited talk "Power systems, ethical issues, and social implications: some reflections emerging from a course experimentation at Politecnico di Milano", *Normative Energy Lectures Series*, Philosophy of Engineering, Technology Assessment, and Science (Philetas), Karlsruhe Institute of Technology (KIT), July 5 2023.
- 2023 Invited talk "Computers, robots, and experiments. Reproducibility and Beyond", *IUSS Philosophy Seminars: Epistemology, Uncertainty and Rationality*, IUSS Pavia, May 3 2023.
- 2023 Invited talk (with Manuel Roveri) "To Personalize or Not To Personalize? Soft Personalization and the Ethics of ML for Health", *SciTinyML: Scientific Use of Machine Learning on Low-Power Devices*, ICPT Virtual Meeting, Trieste, April 19 2023.
- 2023 Invited talk (with Stefano Canali, Alessandro Falcetta, Massimo Pavan) "Privacy e personalizzazione: conciliare valori etici ed efficacia delle soluzioni IoT e ML in ambito medico", *Garante per la protezione dei dati personali*, Roma, March 22 2023.
- 2023 Invited talk "Computer, Robot ed Esperimenti", *Theseus Colloquia*, Politecnico di Torino, March 10 2023.
- 2023 Closing talk for Spring School AI & Ethics "Ethos + Tekhnè: a new generation of AI researchers" *EELISA European University*, Pisa 10 March 2023 (DECLINED).

- 2022 Keynote talk (with Manuel Roveri) at the workshop *Ethical and Societal Challenges of Machine Learning*, International Center for Theoretical Physics, Trieste, November 8 2022.
- 2022 Invited talk at the workshop *Uncertainty in the Sciences*, Politecnico di Milano, June 24 2022.
- 2022 Invited talk at the Conference *La cura infermieristica al tempo dell'IA*, Università degli Studi di Torino, June 10-11 2022.
- 2022 Invited talk at the Conference *Approcci filosofici all'IA*, Università di Roma La Sapeinza, June 9-10 2022.
- 2022 Invited talk "Computers, robots and experiments" at *Synergia Seminar* Università di Urbino, May 25 2022.
- 2022 Keynote for the *Workshop Thinking Through Technology*, Institute for Technology Futures (ITZ) of the Karlsruhe Institute of Technology (KIT), July 2022 (DECLINED).
- 2022 Invited talk *ARSLED Conference on AI and education: ethical challenges and opportunities*, Rome, July 2022 (DECLINED).
- 2022 Invited talk Towards a Research and Innovation Roadmap 4th Workshop on Digital Humanism, *The challenges of interdisciplinarity a century after the Vienna Circle*, March 3 2022.
- 2021 Invited talk *Maven of the Month*, Knowledge Media Institute, Open University, November 3 2021.
- 2021 Keynote invited speaker Ethics4Eu workshop, *Teaching Ethics to Computer Science and Engineering students*, Chalmers University, September 22 2021.
- 2021 Invited talk at *Munich Center for Mathematical Philosophy*, Group of Logic and Philosophy of Language, LMU Munich, July 15 2021.
- 2021 Invited talk *Ethics in Engineering Interdisciplinary Seminar -Automation and Robotics*, Research Ethics Conference, April 16 2021.
- 2020 Invited talk to the conference Artificial Intelligence and Agnostic Science - Doing Science in the Age of Artificial Intelligence, Sorbonne Center for Artificial Intelligence, December 2020.
- 2020 Invited talk to the workshop *Trustworthy AI made in Europe: from Principles to Practice*, AI4EU Observatory on Society and AI, 13th November 2020.
- 2020 Invited talk to the panel *International Initiatives towards a Humanistic Digital Future*, Strategies for a Humanistic Digital Future, Third Workshop on Digital Humanism, TU Vienna, November 20 2020.
- 2020 Invited talk to Digital Ethics Forum, SlowTech, <https://www.digitalethicsforum.com/def-2020/>, October 1 2020.
- 2019 Invited talk, *European Center of Living Technologies*, Università Ca' Foscari Venezia, December 16 2019.
- 2019 Invited talk, workshop *Intelligenza Artificiale ed Etica*, Università degli Studi di Napoli, December 6 2019.
- 2019 Invited talk, *Summer School Philosophical Reflections on an AI Future*, Schweizerische Studienstiftung, Miglieglia (CH), July 7 2019.
- 2019 Invited talk, *Il bello di Unicam*, Università degli Studi di Camerino, June 12 2019.
- 2019 Invited talk, *Conference on Artificial Intelligence: Business, Law, Ethics and Rights across the Ocean*, 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", *ETH Philosophy Colloquium*, ETH Zurich, May 29 2019.
- 2019 Invited talk "Reproducibility in Artificial Intelligence: Experimentation in the Artificial", *Séminaire Histoire et Philosophie de l'Informatique et du Calcul* (HEPIC), IHSPT, Paris, April 10 2019.
- 2019 Invited participation *DigHum, Vienna Workshop on Digital Humanism*, Faculty of Informatics - TU Wien, April 4-5 2019.

- 2019 Invited talk “Computer, robot ed esperimenti: all’alba di un nuovo metodo sperimentale?”, *Laboratorio di Sociologia e Antropologia della Scienza*, 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 Invited 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, November 18 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 seminar series *Seminari di Cultura Matematica*, Politecnico di Milano, May 9 2018.
- 2018 Invited talk to the seminar 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 Management, TU Delft, November 22 2016.
- 2016 Invited talk for the *Philosophy Colloquium*, Department of Technology, Policy and Management, 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*IA 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*, invited by John McCarthy Computer Science Department, Stanford University, November 15 2000.

SERVICE AND LEADERSHIP

Editorial

- 2022-today **Associate Editor** of the journal *Science and Engineering Ethics*.
- 2021-2022 Member of the **editorial board** of the journal *Science and Engineering Ethics*.
- 2013-today Member of the **editorial board** of the *Journal of Experimental and Theoretical Artificial Intelligence*.
- 2013-today **Editor in chief** of the magazine of AICA (Italian Association for Computing) *Mondo Digitale-rassegna critica del settore ICT*.

Professional

2023-2026	Member (elected) of steering committee of the Italian Association for Logic and Philosophy of Science (SILFS).
2022-today	Member of the scientific committee of Biennale Tecnologia, Politecnico di Torino.
2021-2022	Member of the European Commission Expert group on Artificial Intelligence and Data in Teaching and Learning, DIRECTORATE-GENERAL FOR EDUCATION, YOUTH, SPORT AND CULTURE.
2019-today	Director of CINI (National Interuniversity Consortium for Informatics) Laboratory Informatics & Society.
2019-today	Member of the steering committee of fPET (Forum on Philosophy, Engineering, and Technology).
2018-2023	Member of the steering council of HAPOC (Commission for the History and Philosophy of Computing).
2017-2018	Member of the Global Initiative for Ethical Consideration in the Design of Autonomous Systems, IEEE Standards Association.
2017-2019	Member of the IFIP Working Group on Social Accountability and Computing (WG9.2).

University

2023-today	Vice-chair of the Research Ethics Committee of Politecnico di Milano.
2022-today	Member of the PhD program Science, Technology and Policy for Sustainable Change (Step-Change), Politecnico di Milano.
2019-today	Chair of the Committee of the Code of Ethics and Conduct, Politecnico di Milano.
2018-today	Chair of the Idea League Universities Ethics working group.
2017-today	Founder and steering committee member of META Social Sciences and Humanities for Science and Technology, Politecnico di Milano.
2018-19	Member of the commission for the revision of the Code of Ethics and Conduct, Politecnico di Milano.
2015-today	Member of different panels for the recruitment of assistant and associate professors in Italian universities (Università di Trento, Università degli Studi di Verona, Politecnico di Milano, Università di Bologna Alma Mater).

Conference and workshop organizing

2022	Chair (with Paolo Bory and Paolo Volontè) of the workshop “Una politica per l’Intelligenza Artificiale”, Politecnico di Milano, October 27 2022.
2022	Chair (with Andreas Kaminski) of the workshop “From epistemic opacity to ethical opacity? Non transparent models and ethical uncertainty in science, technology and engineering “, High Performance Computing Center Stuttgart (HLRS), July 7 2022.
2021	Chair of the workshop “Dealing with the Complexities of Teaching Ethics to Future Computing Professionals”, Informatics Europe and Ethics4EU, Chalmers University, April 22 2021.
2021	Chair of the panel “AI and Ethics: How IA is reshaping the world”, Digital Humanism Lecture Series, TU Wien, November 10 2021.
2021	Chair of the IDEA League (RWTH Aachen, Chalmers Univeristy, TU Delft, ETH Zurich, Politecnico di Milano) Doctoral School on Ethics of Science and Technology, March-June 2021.
2020	Chair of the conference Umanesimo Digitale-Digital Humanism, Politecnico di Milano, October 9 2020.
2018	Chair (with Giuseppe Primiero) of the workshop “Philosophy and Technologies of Simulations”, Politecnico di Milano, November 22-23 2018.
2018	Chair of the workshop “Putting Ethics into Work: Educating the Future Professionals in Engineering, Architecture and Design”, Politecnico di Milano, November 8, 2018.

- 2018 **Chair** (with Raffaella Campaner) of the **workshop** “For a bottom-up epistemology. A workshop in honour of Maria Carla Galavotti”, CUEB, June 7-9 2018.
- 2017 **Chair** of the **workshop** “Ethics for Technological Innovation”, Politecnico di Milano, October 19 2017.
- 2017 **Chair** (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.
- 2012 **Chair** of the **workshop** “On the Role and Relevance of Experimentation in Informatics”, European Computer Science Summit, Barcelona, November 19-22 2012.

Grant review

Project reviewer for Stuttgart University (2023), Fondazione Cariplo (2020), referee for research and innovation activities at the Provincia Autonoma di Trento (2016), referee for the *Austrian Science Fund* (FWF) 2016.

Refereeing

IJCAI, ECAI, 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.

Main program committee member

Digital Humanism Lectures Series, TU Wien, IJCAI-ECAI 2023, 2022, HaPoC (History and Philosophy of Computing) 21, CiE (Computability in Europe) 2020, 2024, Analogical Reasoning in Science and Mathematics 2018 (Munich Center for Mathematical Philosophy), Automotive 2018 International Conference of Electrical and Electronic Technologies for Automotive, 2018 IFIP Summer School on Privacy and Identity Management, HAPOP 2018 (Fourth Symposium on the History and Philosophy of Programming), PT-AI (Philosophy and Theory of Artificial Intelligence) 2021, 2017, 2013, 2011, Forum on Philosophy, Engineering & Technology (fPET) 2023, 2021, 2016, 2014, 2012, 2010, IACAP (International Association for Computing and Philosophy) Conference 2014.

PHD AND POST-DOC SUPERVISION

- 2022-today Camilla Quresmini (co-supervised with Mara Tanelli), PhD Program in Science, Technology, and Policy for Sustainable Change (STEP-Change), Politecnico di Milano.
- 2022-today Cristiano Bortolotti (co-supervised with Andrea Aliverti), PhD Program in Bioengineering, Politecnico di Milano.
- 2022-today Giacomo Zanotti (co-supervised with Daniele Chiffi), Post-doc project BRIO, Politecnico di Milano.
- 2021-2023 Stefano Canali (co-supervised with Andrea Aliverti), Post-doc project AI and responsibility, Politecnico di Milano.

TEACHING

Courses as Instructor

- 2024-2012 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.

- 2024-2016 Instructor of the course “*Computer Ethics*”, in the Master Program in Computer Engineering, School of Industrial and Information Engineering, Politecnico di Milano.
- 2023-2019 Instructor of the course “*Bioethics*”, in the Program in Medicine and Engineering, Politecnico di Milano and Humanitas University.
- 2024-2020 Instructor of the course “*Ethics Seminar*”, in the Master Program in Cyber Risk Strategy and Governance, Politecnico di Milano and Università Bocconi.
- 2024-2021 Instructor of the course (with Samuele Grillo) “*Power Systems: Ethical Implications and Social Consequences*”, in the Master Program in Electrical Engineering, Politecnico di Milano.
- 2019-2021 Course coordinator (with Simona Chiodo) of the interdoctoral course “*Empowering Imagination*”, Scuola di Dottorato di Ricerca, Politecnico di Milano.
- 2021 Mooc on “*Ethics of Artificial Intelligence*”, POK Politecnico di Milano.
- 2020 Instructor of the interdoctoral course “*Ethics and Technology*”, PhD School, Politecnico di Milano, Milano.
- 2022-2016 Co-instructor of the interdoctoral course “*Ethics in Research*”, PhD School, Politecnico di Milano, Milano.
- 2019 Course co-instructor of the Alliance4Tech Winter School on “*Risk and Responsibility in Technological Innovation*”, Politecnico di Milano.
- 2019 Instructor of the PhD course “*Computer Ethics*”, Università di Pisa, Dipartimento di Ingegneria dell’Informazione.
- 2018 Course coordinator (with Simona Chiodo) of the course “*Empoweing Imagination*”, Idea League Summer School, Politecnico di 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.
- 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.
- 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.
- 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.
- 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.
- 2011-2007 Instructor of the course “*Temi filosofici dell’informatica*”, in the Master Program in Computer Engineering, School of Information Engineering, Politecnico di Milano.
- 2009-2005 Instructor of the course “*Temi filosofici dell’ingegneria e della scienza*”, in the Master Program in Mathematical Engineering, School of System Engineering, Politecnico di Milano.
- 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.
- 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.

- 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.
- 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.
- 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.
- 2004 Instructor of the course "*Teorie e sistemi di intelligenza artificiale*", in the Program in Industrial Design, School of Design, Politecnico di Milano.
- 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.

Courses as Teaching Assistant

- 2024-2004 Teaching assistant in the course "*Artificial Intelligence*", in the Master Program in Computer Engineering, School of Industrial and Information Engineering, Politecnico di Milano.
- 2012 Teaching assistant in the course "*Robotics*", in the Master Program in Computer Engineering, School of Information Engineering, Politecnico di Milano.
- 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.

Invited Lectures

- 2023 "*The Moralization of AI Technologies: Promises and Perils*", PhD course on Human-AI interaction, Università degli Studi di Milano Bicocca, September 19 2023.
- 2023 "*Do Artifacts Have Politics?*", Summer School on Digital Humanism, TU Wien, Austria, September 6 2023.
- 2023 "*AI and the moralization of technologies*", course Etica dell'IA e saperi di genere, Degree in Information Engineering, Università degli Studi di Padova, April 5 2023.
- 2023 "*Do Artifacts Have Politics?*", course Ethics of AI, Master Degree in Artificial intelligence, Alma Mater Studiorum Università di Bologna, March 13 2023.
- 2022 "*Ethics and Engineering*", course Life-support systems, Master degree in Bioengineering, Politecnico di Milano.
- 2022 "*AI and the moralization of technologies*", course Etica dell'IA e saperi di genere, Degree in Information Engineering, Università degli Studi di Padova, May 11 2022.
- 2022 "*Do Artifacts Have Politics?*", course Ethics of AI, Master Degree in Artificial intelligence, Alma Mater Studiorum Università di Bologna, March 7 2022.
- 2022 "*An incremental ethical approach for intelligent and autonomous systems*", PhD course Bioethics and Biolaw, Joint International Doctoral Degree in "Law, Science and Technology", Alma Mater Studiorum Università di Bologna, 10 February 2022.

- 2021 “Ethics of Robotics”, master course Ethics of the Life Sciences and Biorobotics, ETH Zurich, November 15 2021.
- 2021 “Ethics and Design”, master course Landscape Architecture III, Harvard University, October 27 2021.
- 2021 “Ethics and Engineering”, course Life-support systems, Master degree in Bioengineering, Politecnico di Milano.
- 2021 “Information flow, privacy, surveillance”, master course Digital Technologies and Society, Politecnico di Milano, September 21 2021.
- 2022 “Do Artifacts Have Politics?”, course Ethics of AI, Master Degree in Artificial intelligence, Alma Mater Studiorum Università di Bologna, March 8 2021.
- 2021 “Ethics and AI Promises and perils of active responsibility”, PhD course in Computer Science, Università degli Studi di Milano Bicocca, January 26 2021.
- 2020 “Ethics and Design”, master course Landscape Architecture III, Harvard University, October 25 2020.
- 2019 “Ethics and Design”, course Life-support systems, Master degree in Bioengineering, Politecnico di Milano.
- 2019 “Ethics in Artificial Intelligence”, Executive Master in Markets and Technologies of the Future, MIP Business School, Politecnico di Milano.
- 2018 “Epistemologia ed etica della robotica”, course Filosofia della Scienza, Università degli Studi di Firenze.
- 2018 “Ethics in Artificial Intelligence”, Executive Master in Markets and Technologies of the Future, MIP Business School, Politecnico di Milano.
- 2018 “Etica e Intelligenza Artificiale”, ciclo di seminari “Informetica”, Università degli Studi di Milano-Bicocca.

MEDIA AND OUTREACH

- 2023 Invited panelist at Trieste Next Science Festival “Chat-GPT: do you love me?” with Roberto Trotta, Bruce Bassett, Kanta Dihal, September 23 2023.
- 2023 Radio interview on AI and human relationships, Radio Rai Friuli Venezia Giulia, September 23 2023.
- 2023 Newspaper article “Chi decide il progetto” – Login Corriere della Sera, April 24 2023.
- 2023 Interview “Perché Chat-GPT ha bisogno di regole” (with Daniele Mont d’Arpizio), Il Bo Live Università di Padova <https://ilbolive.unipd.it/it/news/perche-chatgpt-ha-bisogno-regole>, April 21 2023.
- 2023 Tv interview on AI in education – Fuori TG – RAI 3, April 17 2023.
- 2023 Podcast Ombra Radio della Svizzera italiana (a cura di Alessandro Chiara) <https://www.rsi.ch/rete-due/programmi/cultura/cliche-click/Ombra-16152022.html?f=podcast-shows>, April 16 2023.
- 2022 Invited talk in Intelligenza artificiale e Humanities, Dipartimento di Studi Umanistici dell'Università di Trieste, December 2 2022 (DECLINED).
- 2022 Invited talk Dal Big Bang all’Intelligenza Artificiale, Dialogo con Roberto Trotta, Biennale Tecnologia Torino, November 12 2022.
- 2022 Invited talk Trustworthy Artificial Intelligence, ETHOS & TECHNE, L’etica nella progettazione della tecnologia, Fondazione Enrico Mattei Milano, November 11 2022.
- 2022 Invited keynote for Digital Ethics Forum, Sloweb, November 23, 24 2022 (DECLINED).
- 2022 Invited talk Open Night 2022 - Museo della Scienza e Tecnologia Milano, September 30 2022 (DECLINED).

- 2022 Invited talk in AI in European education, Netherland house for education and Research (Nether), Brussels, June 13 2022 (DECLINED).
- 2022 Invited lecture Computers, robots and experiments, Lecture in the Public Library of Stuttgart, July 6 2022.
- 2022 Interview Le parole per escludere, le parole per includere: dialogo con Igor Šuran, Politecnico di Milano Pride Week, June 28 2022.
- 2022 TV appearance Stem e discipline umanistiche: il valore della multidisciplinarietà, interview with Rosalba Reggio, Il Sole 24ore TV, June 22 2022.
- 2022 Invited talk Festival dell'Ingegneria, Università degli Studi di Padova, May 13th 2022 (DECLINED).
- 2022 Invited talk Unicredit Digital Pitch, Moralizing technologies A challenge for the ethics of XXI century, April 28 2022.
- 2022 Invited talk L'etica dell'IA, Ciclo di Incontri per studenti, La terra sinistrorsa, Politecnico di Milano.
- 2022 Invited talk Casa della Cultura di Milano, Le Mille Facce dell'Innovazione, Ancora l'IA, with Federico Cabitza and Giorgio De Michelis, March 7 2022.
- 2021 Invited talk Piccolo Teatro di Milano, Big Data B&B, Incontro con il pubblico. With Laura Curino and Roberta Carpani, December 2 2021.
- 2021 Podcast (with Alfio Quarteroni), Dialoghi possibili: algoritmi, big data e intelligenza artificiale.
- 2021 Invited interview I Valori Politecnici, interview with Samantha Cristoforetti. Politecnico di Milano (May 2021).
- 2021 Podcast Intelligenza Artificiale. Podcast italiano sull'intelligenza artificiale, February 2021 <https://www.youtube.com/watch?v=HJ7fz2UM-Cw>
- 2021 Invited talk Etica e tecnologia. Un confronto problematico, I martedì del San Domenico, Centro San Domenico Bologna, February 2021.
- 2020 Book launch: Italian Philosophy of Technology. Socio-Cultural, Legal, Scientific and Aesthetic Perspectives on Technology (con Simona Chiodo, Maurizio Ferraris, Luciano Floridi), Istituto Italiano di Cultura, Londra, December 16 2020.
- 2020 Invited talk È possibile moralizzare (anche) le tecnologie? Meet me tonight-Faccia a faccia con la ricerca, November 2020.
- 2020 Panel Democrazia e Digitale with Fabio Chiusi, Paolo Coppola, Salvatore Iaconesi e Antonella Napolitano, Biennale Tecnologia Torino, November 2020.
- 2020 Invited talk È possibile moralizzare in modo democratico le tecnologie dell'informazione?, Digital Ethics Forum, October 2020.
- 2020 Newspaper article Corriere della Sera, Buone Notizie, articolo "Le persone al centro del progresso tecnologico", October 2020.
- 2020 Invited interview I Valori Politecnici, interview with Fiammetta Borsellino. Politecnico di Milano, May 2020.
- 2020 Invited interview CONFINI: interview with Viola Schiaffonati, philosopher of science, Gli Stati Generali <https://www.glistatigenerali.com/>.
- 2020 Invited interview Le app di tracciamento e l'importanza del nostro diritto privacy anche durante l'emergenza: interview with Viola Schiaffonati. Extrema Ratio Associazione <https://extremaratioassociazione.it/>
- 2020 Interview for the podcast Roboassistenti, SISSA Media Lab <https://soundcloud.com/connessionipodcast>
- 2019 D-Avengers Università Commerciale Luigi Bocconi. L'intelligenza artificiale e la metamorfosi del mondo in cui viviamo. Talk on "Etica e IA" (November 14 2019).

- 2019 Festival della tecnologia – Politecnico di Torino. Roundtable on Roboetica: una riflessione sugli aspetti etici, legali e sociali dei robot with Marcello Chiaberge e Gianmarco Veruggio (November 10 2019).
- 2019 Il futuro visto da qui – Dialoghi fra arte e scienza sul domani, Master in Comunicazione della Scienza e dell’Innovazione Sostenibile, Università degli Studi di Milano-Bicocca. Conversation with Marco Ponti su “L’era dei computer intelligenti” (October 24 2019).
- 2019 Corriere della Sera – Il tempo delle donne Triennale di Milano. Conversation with con Barbara Caputo on “La convivenza possibile fra umani e robot” (September 13 2019).
- 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).
- 2019 Interview on Ethics and new technologies in the magazine Persone e Conoscenze, ESTE.
- 2019 Interview on Ethics and Robotics, Stampa Toscana.
- 2017 Video interview on the Ethics and Technology, Politecnico di Milano, Expert of the week.
- 2017 Tv Interview (Tgcom) on the Code of Ethics for Autonomous Vehicles (July 13 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 Tempo di Libri Milan 2017, Focus, Round table with Daniela Lucangeli and Margherita Fronte on Human Intelligence and Artificial Intelligence (April 21 2017).
- 2016 Radio interview (Radio Tre Scienza) on the history of Artificial Intelligence (January 20 2016).
- 2014 Video interview on the Turing Test, Politecnico di Milano, Expert of the week.