

**CURRICULUM VITAE**

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- Full professor of Cognitive Science and Technology, Università di Siena (2002-Present).
- Co-Founder of UDOO
- Chair of the Academy of Digital Sciences and Art of Siena– ArsNova (2004–2010).
- Chair of the European Association of Cognitive Ergonomics (2000 – 2006).
- Reviewer of the Future and Emerging Technology Programme of the European Commission (2010-2011).
- Membre de the Scientific Committee Incitatif de Recherche sur l'Éducation et la Formation (PIREF) of the French Government (2002-2003).
- Member of the WG30 NATO Human Factors and Human Reliability Group (1999 – 2002).
- Coordinator of the Human Factors Group of the National railways (1996 – 1999).
- University Liaison for Apple Inc, for the Apple Design Project (1996-1997).
- Consultant for: Philips Design, Simens, Eurocontrol, Franke, Trenitalia, Ilva, Rete Ferroviaria Italiana, Indesit, Eni, Monte dei Paschi di Siena, SECO, SunLink, Procura di Torino, Procura di Bologna.

**R&D projects since 2000:**

2023/2025 - IT - FRESIA, Il Federated REinforcement learning come Soluzione di IA per le gestione dei flussi energetici delle comunità energetiche rinnovabili, Coordinator

2022/2023 - IT - GEMMA, Gestione flussi Energetici in Microgrid Mediante Algoritmi di reinforcement learning, Coordinator

2020/2022 - IT - ATLAS, RTLS for Hospital, Partner

2020/2022 - IT - SPEAKMI, Dialogical Interface in chemical Plants, Partner

2020/2022 - IT - VirtualMaitre, Augmented Reality for Resort, Partner

2019/2022 - IT - MPS EACO, Business Intelligence per il controllo di qualità

2018/2020 – IT – INASSE, Industry 4.0 as a service, Partner

2017/2020 – IT – FIND, Augmented Reality for Service and Maintenance, Partner

2017/2019 – IT – ASSIST, Sistema di Accoglienza basato su Collaborative Robot, Partner

2016/2018 – IT – MPS; Security, Safety and Experience in New Bank Branch, Coordinator

2016/2017 – IT – FILME; Future Internet Lightbulb for Multimedia and Entertainment, Partner

2015/2018 – EU – AXIOM Agile, eXtensible, fast I/O Module for the cyber-physical era, Partner

2012/2015 – IT – DROP; Smart media for enjoying life, Partner.

2013/2014 – IT – INDOLE; Smart building for smart living, Partner.

- 2010/2012 - IT – Indesit, Wealthy Well being and food experience. Coordinator
- 2009/2010 - IT – Indesit, BUI Beyond User Interface: Coordinator
- 2009 /2010 - IT – Softec: Mobile Internet User Experience. Coordinator
- 2006 /2010 - EU –Resist: Dependability, Security and Human Factors for Survivability in IST. Partner.
- 2007 /2010 - IT – CPSA, Wi-Roni: Le tecnologie del Web per l'arredo urbano. Coordinator.
- 2007/2008 EU – Minerva Programme. Puente: Design experience for intergenerational learning- Coordinator.
- 2004/2008 – EU- Member of the Core Group of the Network of Excellence KALEIDOSCOPE: Concepts and Methods for Exploring the Future of Learning with Digital Technologies.
- 2004/2008 – EU - Member of the multidisciplinary team for the Integrated Project, Palpable Computing PALCOM – A new perspective in Ambient Computing.
- 2004/2005 – EU - Partner of the Integrated Project. Intelligent Cities (INTELCITIES).
- 2000/2003 – EU - Partner of the Training and Mobility Program. Complexity in Social Science (COSI).
- 2002/2003 EUROCONTROL - Partner of the CREA! Project (Creative Research Environment for ATM) funded by Eurocontrol EC, within the CARE Innovative Action Programme.
- 2000/2002 – EU -Member of the multidisciplinary team designing a multiagent system for supporting content browsing, retrieval and management in distributed database system related to cultural heritage within the i-Mass project of the EU - IST programme.

### **Main Academic Experiences Abroad**

- 1987-88. Visiting Research Fellow, Department of Psychology, University of Manchester, United Kingdom.
- 1989, Visiting scholar, Department of Cognitive Science, University of California San Diego, USA
- 1990, Visiting scholar, Department of Cognitive Science, University of California San Diego, USA
- 1992-1994 Honorary Research Fellow, Department of Psychology, University College of London, United Kingdom.
- 1995, Visiting Scientist, Department of Cognitive Science, University of California San Diego, USA
- 2013, Visiting Scientist, Department of Cognitive Science, University of California San Diego, USA
- 2017, Visiting Professor, Department of Electrical & Computing Engineering, Carnegie Mellon University, USA
- 2022, Visiting Professor, Department of Electrical & System Engineering, Washington University Saint Louis, USA

### **Publications since 2011** (for full references cfr [https://scholar.google.com/citations?user=FDPbf\\_gAAAAJ&hl=it](https://scholar.google.com/citations?user=FDPbf_gAAAAJ&hl=it))

- Caponi A, Ermini S, Guiducci L, Valli B., Rizzo A. (2023) Co-Design of a Patient Fall Risk Prevention Service Powered by Machine Learning. *ACM Conference AfriCHI2023*. East London, South Africa.
- Guiducci L, Palma, G, Stentati M, Rizzo A, Paoletti S (2023) A reinforcement learning approach to the management of renewable energy communities. In *12th Mediterranean Conference on Embedded Computing MECO*, Budva, MNE.
- Rizzo A, Ermini S, Zanca D, Bernabini D, Rossi A. (2022) A Machine Learning Approach for Detecting Cognitive Interference Based on Eye-Tracking Data. *Front Hum Neurosci*. 2022 Apr 29;16:806330. doi: 10.3389/fnhum.2022.806330.

- Ermini, S., Bernabini, D., Burrese, G., Lorusso, M., & Rizzo, A. (2021, April). Human-Centered Retrofitting. In *European Conference on Cognitive Ergonomics 2021* (pp. 1-6).
- Burrese, G., M. Lorusso, L. Graziani, A. Comacchio, F. Trotta and A. Rizzo, "Image-Based Defect Detection in Assembly Line with Machine Learning," *2021 10th Mediterranean Conference on Embedded Computing (MECO)*, 2021, pp. 1-5.
- Burrese G., et al., "Smart Retrofitting by Design Thinking Applied to an Industry 4.0 Migration Process in a Steel Mill Plant," *2020 9th Mediterranean Conference on Embedded Computing (MECO)*, 2020, pp. 1-6,
- Rizzo, Antonio. (2020). *Ergonomia cognitiva. Dalle origini al Design Thinking*. Bologna: Il Mulino.
- Rossi, A., Ermini, S., Bernabini, D., Zanca, D., Todisco, M., Genovese, A., & Rizzo, A. (2020). End-to-End Models for the Analysis of System 1 and System 2 Interactions based on Eye-Tracking Data. *arXiv preprint arXiv:2002.11192*.
- Rizzo, A.; Caporali; Conti, D., Montefoschi, F.; Burrese, G.; Sinopoli, B. (2019) The design of UDOO Boards: Contributing to the appropriation of digital technology. *Frontiers in ICT* 6, 4.
- Giorgi, R.; Oro, D.; Ermini, S.; Montefoschi, F.; Rizzo, A. (2019) Embedded Face Analysis for Smart Videosurveillance, *8th Mediterranean Conference on Embedded Computing (MECO)*, 1-4, 2019, IEEE Publishing
- Burrese, G.; Rizzo, A.; Lorusso, A.; Ermini, S.; Rossi, A.; Cariaggi, F. (2019) Machine Learning at the Edge: a few applicative cases of Novelty Detection on IIoT gateways, *2019 8th Mediterranean Conference on Embedded Computing (MECO)*, 61-64, 2019, IEEE Publishing
- Giorgi, R.; Bettin, N.; Ermini, S.; Montefoschi, F.; Rizzo, A. (2019) An Iris+ Voice Recognition System for a Smart Doorbell, *2019 8th Mediterranean Conference on Embedded Computing (MECO)*, 83-87, 2019, IEEE Publishing
- Rossi, A.; Rizzo, A.; Montefoschi, F. (2018) ATM Protection Using Embedded Deep Learning Solutions, *IAPR Workshop on Artificial Neural Networks in Pattern Recognition*, 371-382, 2018, "Springer, Cham"
- Rizzo, A.; Montefoschi, F.; Caporali, M.; Burrese, G.; (2018), UAPPI: A Platform for Extending App Inventor Towards the Worlds of IoT and Machine Learning, "*Innovative Methods, User-Friendly Tools, Coding, and Design Approaches in People-Oriented Programming*", 88-109, 2018, IGI Global
- Rossi, A; Montefoschi, F; Rizzo, A; Diligenti, M; Festucci, C; (2018) Auto-Associative Recurrent Neural Networks and Long Term Dependencies in Novelty Detection for Audio Surveillance *Applications, IOP Conference Series: Materials Science and Engineering*, 261,1,012009, 2017, IOP Publishing
- Rizzo A., Montefoschi, F., Caporali, M., Gisondi, A., Burrese, G., Giorgi, R. (2017) Rapid prototyping IoT solutions based on Machine Learning. *ECCE2017*, Umea, September 20-22, pp 24-29.
- Giorgi, R., Bettin, N., Gai, P., Martorell, X., & Rizzo, A. (2017). AXIOM: A Flexible Platform for the Smart Home. In *Components and Services for IoT Platforms* (pp. 57-74). Springer International Publishing.
- Rizzo, A. Burrese, G. Montefoschi, F. Caporali, M. Giorgi, R. (2016) Making IoT with UDOO", *Interaction Design and Architecture(s)*, vol. 1, no. 30, Dec. 2016, pp. 95-112.
- Giorgi, R. Bettin, N. Gai, P. Martorell, X. Rizzo, A. (2016) AXIOM: A Flexible Platform for the Smart Home, Springer Int.l Publishing, Cham, 2016, pp. 57-74
- Blevis, E., Bødker, S., Flach, J., Forlizzi, J., Jung, H., Kaptelinin, V., ... & Rizzo, A. (2015, April). Ecological perspectives in hci: Promise, problems, and potential. In *Proceedings of the 33rd Annual ACM Conference Extended Abstracts on Human Factors in Computing Systems* (pp. 2401-2404). ACM.
- Rizzo, A., Montefoschi, F., Ermini, S., & Burrese, G. (2015). UDOO App Inventor: Introducing Novices to the Internet of Things. *International Journal of People-Oriented Programming (IJPOP)*, 4(1), 33-49.
- Rizzo, A. (2015) L'intelligenza culturale. *Sistemi intelligenti* 27 (2), 261-284
- Rizzo, A. (2015) Les artefacts d'origine humaine. In Decortis (Ed.) *L'ergonomie orientée enfants*, 219 – 250 Paris: PUF
- Decortis, F., Rizzo, A., Rutgers, J. (2015) POGO, Quelques trésor enfouis et "objet pour penser" In Decortis (Ed.) *L'ergonomie orientée enfants*, 27-41 Paris: PUF
- Ackermann, E., Decortis, F., Rizzo A., (2015) POGO: 1997-2002. In Decortis (Ed.) *L'ergonomie orientée enfants*, 43-57. Paris: PUF
- Decortis, F., Rizzo A. (2015) POGO - un processus de conception centré sur les enfants. In Decortis (Ed.) *L'ergonomie orientée enfants*, 59-83. Paris: PUF

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- Alvarez, C., Ayguade, E., Bueno, J., Filgueras, A., Jimenez-Gonzalez, D., Martorell, X., A.Rizzo, R.Giorgi, & Gai, P. (2015, August). The AXIOM Software Layers. In *Digital System Design (DSD), 2015 Euromicro Conference* (pp. 117-124). IEEE.
- Theodoropoulos, D., Pnevmatikatos, D., Alvarez, C., Ayguade, E., Bueno, J., Filgueras, A., Martorell, X., A.Rizzo, R.Giorgi, P. Gai, & Fernandez, C. (2015, July). The AXIOM project (agile, extensible, fast i/o module). In *Embedded Computer Systems: Architectures, Modeling, and Simulation (SAMOS), 2015 International Conference on* (pp. 262-269). IEEE.
- Kaptelinin, V.; Rizzo, A.; Robertson, P.; Rosenbaum, S. (2014) Crafting user experience of self-service technologies: key challenges and potential solutions. *Proceedings of the 2014 companion publication on Designing interactive systems*, pp.199-202, 2014, ACM Press
- Jung, H.; Kim, T.; Yang, Y.; Carli, L.; Carnesecchi, M.; Rizzo, A.; Gurrin, C. (2013) Aesthetics in data visualization: case studies and design issues, *Innovative approaches of data visualization and visual analytics*. Hershey: IGI Global.
- Rizzo A. (2012) The dual nature of tools and their makeover. *Behavioral and Brain Sciences* 35 (4), 37-38
- Rizzo A. (2012) Commentary on: Kaptelinin, V. Activity Theory. *Encyclopaedia of Human-Computer Interaction*. Aarhus, Denmark: The Interaction-Design.org Foundation.
- Di Piazza, S. Vaccarella, L., Dell'Ava A., Conti S., Rizzo A.(2012) Social learning and rational choice. *Neuroscience and the Economics of Decision Making* 5, 214 – 227.
- Carnesecchi, M., Rizzo, A., Alessandrini, A., Caporali, M. Milani M. (2011) Designing iLook, *PsychNology Journal* 9 (3), 223-243

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