PERSONAL INFORMATION

Mario D.L. Giacobini

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Male | 27/06/1973 | Italian

WORK EXPERIENCE

1999 — **Scientific Consultant**

Telsy Elettronica e Telecomunicazioni, Telecom Italia Group, Torino (Italy)

▪ Study on the possibility of the application of evolutionary computation approaches to cryptography

Applied research

2000-2005 — **Research Assistant**

Computer Science Institute, University of Lausanne (Switzerland)

▪ Teaching and Research Assistant

Basic and applied research

2005-2006 — **First Research Assistant**

Information Systems Department, University of Lausanne (Switzerland)

▪ Researcher and Teaching Assistant

Basic and applied research

2006-2015 — **Assistant Professor**

Faculty of Veterinary Medicine, University of Torino (Italy)

▪ Researcher and Lecturer in Informatics

Basic and applied research

2015-present — **Associate Professor**

Department of Veterinary Sciences, University of Torino (Italy)

▪ Researcher and Lecturer in Informatics

Basic and applied research

EDUCATION AND TRAINING

1998 — Degree in Mathematics — *EQF 7*

University of Torino (Italy)

1999 — Master Degree in Discrete Mathematics and Informatics — *EQF 8*

University of Aix-Marseille II (France)

2005 — Ph.D. in Computer Science — *EQF 8*

University of Milano (Italy) and University of Lausanne (Switzerland)

PERSONAL SKILLS

Mother tongue(s)	Italian
Other language(s)	English, writing: advance; reading: advance; speaking: advance. French, writing: advance; reading: advance; speaking: advance .
Job-related skills	Vice Rector for European Relations Member of the Coordination Committee of the European University UNITA – Universitas Montium Principal Investigator of the Data Analysis and Modeling Unit at the Department of Veterinary Sciences Faculty member of the PhD Program in Veterinary Sciences for Animal Health and Food Safety Vice President of the SPECIES Society

ADDITIONAL INFORMATION

Academic metrics	Number of articles: 97 Number of citations: 1122 H-index: 19

Research Interests	**Dynamical Systems and Epidemiology:** simulation of the diffusion of pathogen agents using automata networks, with particular attention to vector-host and animal trade movements systems
	Artificial Evolution and Artificial Intelligence: modelization of evolutionary dynamics in populations with a topological structure, with particular attention to the influence of the spatial and temporal dimensions on selection pressure
	Complex Systems and Cellular Automata: analysis of the influence of the topological properties in automata networks for the solution of computational problems, and modelization of biological networks using generalized automata networks
	Genetic Programming and Bioinformatics: application of Genetic Programming to biological problems, in particular Bioinformatics

Selected Publications	1. Lombardo G.; Pellegrino M.; Tomaiuolo M.; Cagnoni S.; Mordonini M.; Giacobini M.; Poggi A. Fine-Grained Agent-Based Modeling to Predict Covid-19 Spreading and Effect of Policies in Large-Scale Scenarios IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS (2022) 26(5) pp. 2052-62 DOI: 10.1109/JBHI.2022.3160243
	2. Michalak, K., Giacobini, M. The influence of uncertainties on optimization of vaccinations on a network of animal movements (2021) Soft Computing, 25 (6), pp. 4907-4923. DOI: 10.1007/s00500-020-05499-y
	3. Abbona F.; Vanneschi L.; Bona M.; Giacobini M. Towards modelling beef cattle management with Genetic ProgrammingLIVESTOCK SCIENCE (2020) 241: 1-12 DOI: 10.1016/j.livsci.2020.104205
	4. Iotti, B., Valdano, E., Savini, L., Candeloro, L., Giovannini, A., Rosati, S., Colizza, V., Giacobini, M. Farm productive contexts and the dynamics of bovine viral diarrhea (BVD) transmission (2019) Preventive Veterinary Medicine, 165, pp. 23-33. Cited 10 times. DOI: 10.1016/j.prevetmed.2019.02.001
	5. Ferreri, L., Bajardi, P., Giacobini, M. Non-systemic transmission of tick-borne diseases: A network approach (2016) Communications in Nonlinear Science and Numerical Simulation, 39, pp. 149-155. Cited 2 times. DOI: 10.1016/j.cnsns.2016.02.034
	6. Marini G, Poletti P, Giacobini M, Pugliese A, Merler S, Rosa R (2016). The Role of Climatic and Density Dependent Factors in Shaping Mosquito Population Dynamics: The Case of Culex pipiens in Northwestern Italy. Plos One, p. 1-15, DOI: http://dx.doi.org/10.1371/journal.pone.0154018
	7. Ferreri L, Bajardi P, Giacobini M, Perazzo S, Venturino E (2014). Interplay of network dynamics and heterogeneity of ties on spreading dynamics. Physical Review E, Statistical, Nonlinear, And Soft Matter Physics, vol. 90, p. 1-9, doi: 10.1103/PhysRevE.90.012812
	8. Ferreri L, Giacobini M, Bajardi P, Bertolotti L, Bolzoni L, Tagliapietra V, Rizzoli A, Rosà R (2014). Pattern of Tick Aggregation on Mice: Larger Than Expected Distribution Tail Enhances the Spread of Tick-Borne Pathogens. Plos Computational Biology, vol. 10, p. 1-12, doi: 10.1371/journal.pcbi.1003931
	9. Mesejo, P., Ugolotti, R., Di Cunto, F., Giacobini, M., Cagnoni, S. Automatic hippocampus localization in histological images using Differential Evolution-based deformable models (2013) Pattern Recognition Letters, 34 (3), pp. 299-307. Cited 21 times. DOI: 10.1016/j.patrec.2012.10.012