Short CV of Matteo Cavaliere

Matteo Cavaliere is an Associate Professor at the University of Modena and Reggio Emilia.

His research is collaborative and interdisciplinary.

He has co-authored more than 40 articles published in scientific journals and 20 articles published in international conference proceedings. His research activities are primarily in the following areas:

Natural Computation

Theory of Computation

Game Theory

Synthetic and Systems Biology

Complex Systems.

He **graduated in Computer Science** from the University of Salerno in 2001 and earned his **Ph.D. in Logic, Computation, and Artificial Intelligence** from the University of Seville in 2006.

Before becoming an associate professor at the University of Modena and Reggio Emilia (October 2023), he was **senior lecturer** in computer science at the Manchester Metropolitan University, United Kingdom (August 2019 - September 2023) and a lecturer in computer science at the Manchester Metropolitan University, United Kingdom (December 2017 - August 2019). At Manchester Metropolitan University, he taught basic and advanced courses in algorithms and programming.

Previously, he was a **post-doctoral researcher** at the University of Edinburgh, United Kingdom (2014 - 2017), a post-doctoral researcher at the National Center for Biotechnology, CNB-CSIC, Spain (2009 - 2013), and a post-doctoral researcher at the Microsoft Research - University of Trento, Centre for Computational and Systems Biology, Italy (2006 - 2009).

He is a member of the **editorial board** of the journals "Mathematics" (MDPI) and Scientific Reports (Spinger Nature).

He served as a guest editor for a special issue (in 2018) of the journal "Natural Computing" on synthetic and systems biology.

For his studies in the **field of complex systems** (social/biological), he was invited to the "NAFKI Conference - Collective Behaviors: From Cells to Society" organized by the U.S. National Academy of Sciences in 2014.

In 2018 he obtained the grant “Academy New Appointments” from the British Computer Society (BCS)

During his stage at the University of Edinburgh, he was co-PI of the research project "Evolutionary Game Theory for Tissue Engineering" funded by the U.S. National Academies and Keck Foundation in 2015.

He has been in the **scientific committee** of numerous international conferences in the field of unconventional and natural computation - the most recent being "Unconventional Computation and Natural Computation" in 2017, 2018, 2021, 2023, 2026 and the "Conference on Membrane Computing" in 2020. He was also a co-organizer of an international workshop on "early warnings" in ecological and evolutionary complex systems ("Fluctuations, Tipping Points and Emergence in Eco-Evolutionary Dynamics") held at the University of Leeds, United Kingdom, in 2019.

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