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Manuel Pita

Associate Researcher

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Curriculum

Manuel Pita is an Assistant Professor in Artificial Intelligence, Data Science and Complex Systems at CICANT (ULHT, Portugal) and Associate Researcher in the Complex Systems group at ISTAR (ISCTE-IUL, Portugal). His research is on the interplay between individual and collective behaviours in complex networks (or how do individuals and collectives shape each other). He obtained a PhD in Artificial Intelligence and Cognitive Science from the University of Edinburgh (Scotland, UK) in 2007 and pursued postdoctoral training with Prof. Luís Rocha (Indiana University, USA) and Prof. Melanie Mitchell (Portland State University, USA). He is the principal investigator in a project that studies the driver factors of collective states in the online social conversations of young secondary school students in Portugal. This knowledge is to be used to support the public administration in the design of ethical educational interventions to improve critical thinking, reflexive behaviours and foster plurality - thus counteracting phenomena such as hate speech, polarisation, and dissemination of fake news.

Research Interests

Complex Systems

Artificial Intelligence

Data Science

Computational Social Science

Natural Language Processing

Academic Qualifications

University/Institution	Type	Degree	Period
The University of Edinburgh	PhD	Artificial Intelligence and Cognitive Science	2006
Universidad Metropolitana	Licenciate	Ingenieria de Sistemas	1997

Total Citations

Web of Science®	151
Scopus	170

Publications

• Scientific Journals

- Scientific journal paper

1	<p>Pierdicca, R., Marques-Pita, M., Paolanti, M. & Malinverni, E. S. (2019). IoT and engagement in the ubiquitous museum. <i>Sensors</i>. 19 (6)</p> <p>- Times Cited Web of Science®: 20 - Times Cited Scopus: 26</p>
2	<p>Pita, M., Won, M., Louro, C. & Gonçalves-Sá, J. (2017). Early and Real-Time Detection of Seasonal Influenza Onset. <i>PLoS Computational Biology</i>.</p> <p>- Times Cited Web of Science®: 19 - Times Cited Scopus: 20</p>
3	<p>Pita, M., Mateus, A.R.A., Oostra, V., Lafuente, E., Brakefield, P.M., Zwaan, B.J....Beldade, P. (2014). Adaptive developmental plasticity: Compartmentalized responses to environmental cues and to corresponding internal signals provide phenotypic flexibility. <i>BMC Medicine</i>.</p> <p>- Times Cited Web of Science®: 65 - Times Cited Scopus: 53</p>
4	<p>Pita, M. & Rocha, L.M. (2013). Canalization and Control in Automata Networks: Body Segmentation in <i>Drosophila melanogaster</i>. <i>PLoS ONE</i>.</p> <p>- Times Cited Web of Science®: 47 - Times Cited Scopus: 43</p>

• Books and Book Chapters

- Book chapter

1	<p>Pita, M., Mitchell, M. & Rocha, L.M. (2008). The role of conceptual structure in designing cellular automata to perform collective computation. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics).</p> <p>- Times Cited Scopus: 12</p>
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• Conferences/Workshops and Talks

- Publication in conference proceedings

1	<p>Pita, M. & Rocha, L.M. (2011). Schema redescription in cellular automata: Revisiting emergence in complex systems. In IEEE SSCI 2011 - Symposium Series on Computational Intelligence - IEEE ALIFE 2011: 2011 IEEE Symposium on Artificial Life.</p> <p>- Times Cited Scopus: 6</p>
2	<p>Pita, M. & Rocha, L.M. (2008). Conceptual structure in cellular automata: The density classification task. In Artificial Life XI: Proceedings of the 11th International Conference on the Simulation and Synthesis of Living Systems, ALIFE 2008.</p> <p>- Times Cited Scopus: 10</p>
3	<p>Myroslava Dzikovska, Charles Callaway, Manuel Pita, Elaine Farrow, Colin Matheson & Johanna D. Moore (2007). Adaptive tutorial dialogue systems using deep NLP techniques. In Proceedings of Human Language Technologies: The Annual Conference of the North American Chapter of the Association for Computational Linguistics: Demonstrations on XX - NAACL '07.</p>