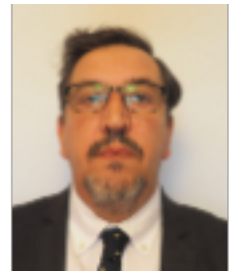


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António Fonseca

Professor Auxiliar

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Department of Digital Technologies (ETDA)



Contacts

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Curriculum

António Filipe Fonseca is an engineer and complexity sciences researcher. He graduated in Electronics and Telecommunications from IST in Lisbon and holds a Master's degree and a PhD in Complex Systems Sciences from ISCTE/IUL and Faculdade de Ciências de Lisboa. His main research interests are complex social systems, information dynamics and modelling and simulation of complex systems. He worked in several private companies as an engineer before joining the public service as an IT expert. Currently is Assistant professor in ISCTE Sintra and Integrated Researcher at ISTAR/ISCTE -IUL Lisbon.

Research Interests

Complexity Sciences

Multi-Agent Simulation

Sistemas Sociais Complexos

Internet and Communication Sciences

Complexity Measures

Academic Qualifications

University/Institution	Type	Degree	Period
ISCTE-Instituto Universitário de Lisboa	PhD	Programa Doutoral em Ciências da Complexidade	2015
ISCTE-Instituto Universitário de Lisboa	M.Sc.	Mestrado em Ciências da Complexidade	2009
Universidade Católica Portuguesa	Post-graduation	Gestão Avançada de Projectos	2002
Universidade de Lisboa Instituto Superior Técnico	Licenciante	Engenharia de Telecomunicações e Electrónica	1989

Teaching Activities

Teaching Year	Sem.	Course Name	Degree(s)	Coord
2026/2027	2º	Principles of Data Analysis	Bachelor Degree in Politics, Economics and Society;	Yes
2026/2027	2º	Analytical Information Systems	Bachelor Degree in Digital Technologies and Health;	Yes
2026/2027	1º	Principles of Data Analysis	Bachelor Degree in Digital Educational Technologies;	Yes
2026/2027	1º	Analytical Information Systems	Bachelor Degree in Digital Technologies and Artificial Intelligence;	Yes
2025/2026	2º	Principles of Data Analysis	Bachelor Degree in Politics, Economics and Society;	Yes
2025/2026	2º	Analytical Information Systems	Bachelor Degree in Digital Educational Technologies; Bachelor Degree in Software and Applications Development;	Yes
2025/2026	1º	Principles of Data Analysis	Bachelor Degree in Mathematics Applied and Digital Technologies; Bachelor Degree in Digital Educational Technologies; Bachelor Degree in Digital Technologies and Artificial Intelligence; Bachelor Degree in Digital Technologies and Automation;	Yes
2025/2026	1º	Analytical Information Systems		Yes
2024/2025	2º	Autonomous Agents	Bachelor Degree in Digital Technologies and Artificial Intelligence;	Yes
2024/2025	2º	Programming and Analysing Data in Excel		Yes
2024/2025	2º	Principles of Data Analysis		Yes

2024/2025	2°	Analytical Information Systems	Bachelor Degree in Digital Technologies and Health; Bachelor Degree in Software and Applications Development;	Yes
2024/2025	1°	Programming and Analysing Data in Excel		Yes
2024/2025	1°	Principles of Data Analysis	Bachelor Degree in Mathematics Applied and Digital Technologies; Bachelor Degree in Digital Technologies and Artificial Intelligence; Bachelor Degree in Digital Technologies and Automation;	Yes
2024/2025	1°	Advanced Network Analysis		No
2024/2025	1°	Analytical Information Systems		Yes
2023/2024	2°	Autonomous Agents	Bachelor Degree in Digital Technologies and Artificial Intelligence;	Yes
2023/2024	2°	Principles of Data Analysis		Yes
2023/2024	2°	Analytical Information Systems	Bachelor Degree in Digital Technologies and Artificial Intelligence; Bachelor Degree in Software and Applications Development;	Yes
2023/2024	1°	Principles of Data Analysis	Bachelor Degree in Digital Technologies and Artificial Intelligence; Bachelor Degree in Digital Technologies and Automation;	Yes
2023/2024	1°	Advanced Network Analysis		No
2022/2023	1°	Advanced Network Analysis	Post Graduation Program in Data Science;	No
2019/2020	1°	Research Methods for Phd in Complexity Sciences I		No
2019/2020	1°	Advanced Topics in Complexity Sciences I		No
2017/2018	1°	Research Methods for Phd in Complexity Sciences I		No
2017/2018	1°	Advanced Topics in Complexity Sciences I		No
2015/2016	2°	Advanced Topics in Complexity Sciences I		No
2015/2016	2°	Advanced Topics in Complexity Sciences II		No

Supervisions

• M.Sc. Dissertations

- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Sebastião Trincão Henriques Ferreira Leal	The Influence of a Carbon Footprint Calculator Web App on Environmental Awareness in Organizations	--	Developing	Iscte

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Catarina da Silva Pontes	Decoding Hate: Analyzing Twitter Social Networks for Hate Speech and User Behavior	English	Iscte	2024
2	Miguel Dordio Lobo da Conceição Oliveira	Analysing the spread and impact of information on social media	Portuguese	Iscte	2022

• M.Sc. Final Projects

- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Patricia Pinheiro Bray Marques dos Santos	Labour Literacy for Graduating Students	--	Developing	Iscte

Total Citations

Web of Science®	30
Scopus	66

Publications

• Scientific Journals

- Scientific journal paper

1	<p>Guerra, R., Carvalho, P., Marques, C., Carmona, M., Sarroeira, R., Batista, F....Silva, C. (2025). Unpacking online hate speech in Portuguese social media: A social-psychological and linguistic-discursive approach. <i>Humanities and Social Sciences Communications</i>. 12</p> <p>- Times Cited Web of Science®: 1 - Times Cited Scopus: 1 - Times Cited Google Scholar: 1</p>
2	<p>Ramos, G., Batista, F., Ribeiro, R., Fialho, P., Moro, S., Fonseca, A....Silva, C. (2024). Leveraging transfer learning for hate speech detection in Portuguese social media posts. <i>IEEE Access</i>. 12, 101374-101389</p> <p>- Times Cited Web of Science®: 9 - Times Cited Scopus: 14 - Times Cited Google Scholar: 20</p>
3	<p>Fonseca, A., Pontes, C., Moro, S., Batista, F., Ribeiro, R., Guerra, R....Silva, C. (2024). Analyzing hate speech dynamics on Twitter/X: Insights from conversational data and the impact of user interaction patterns. <i>Heliyon</i>. 10 (11)</p> <p>- Times Cited Web of Science®: 6 - Times Cited Scopus: 7 - Times Cited Google Scholar: 19</p>
4	<p>Fonseca, A. F., Bandyopadhyay, S., Louçã, J. & Manjaly, J. (2019). Caste in the news – a computational analysis of Indian newspapers. <i>Social Media + Society</i>. 5 (4), 1-7</p> <p>- Times Cited Scopus: 13 - Times Cited Google Scholar: 30</p>
5	<p>Fonseca, A. & Louçã, Jorge (2018). Explaining the emergence of online popularity through a model of information diffusion. <i>Computational and Mathematical Organization Theory</i>. 24 (2), 169-187</p> <p>- Times Cited Web of Science®: 2 - Times Cited Scopus: 2 - Times Cited Google Scholar: 3</p>
6	<p>Fonseca, A. & Louçã, Jorge (2018). How things become popular: a probabilistic approach for online popularity. <i>Social Science Computer Review</i>. 36 (2), 176-194</p> <p>- Times Cited Google Scholar: 1</p>
7	<p>Fonseca, A. (2009). Two informational complexity measures in social networks and agent communities. <i>International Journal of Agent Technologies and Systems</i>. 1 (4), 49-57</p>

- Review article

1	<p>Ramos, G., Batista, F., Ribeiro, R., Fialho, P., Moro, S., Fonseca, A....Silva, C. (2024). A comprehensive review on automatic hate speech detection in the age of the transformer. <i>Social Network Analysis and Mining</i>. 14 (1)</p> <p>- Times Cited Web of Science®: 12 - Times Cited Scopus: 29 - Times Cited Google Scholar: 46</p>
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• Books and Book Chapters

- Book chapter

1	<p>Fonseca, A. F. & Louçã, J. (2022). Network-based approaches for studying migrations. In Manuel João Ramos, Pedro Neto, Giulia Daniele (Ed.), <i>Border crossings in and out of Europe</i>. (pp. 200-231). Lisboa: Centro de Estudos Internacionais do Instituto Universitário de Lisboa (CEI-Iscte).</p>
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2	Fonseca, A. (2021). O controlo da informação na sociedade na era dos media sociais. In <i>Complexidade: implicações e políticas globais</i> . (pp. 58-69).
3	Fonseca, A. & Louçã, J. (2015). Political opinion dynamics in social networks: The Portuguese 2010-11: Case study. In João Caraça, Helder Coelho (Ed.), <i>Power, leadership and complexity. In memory of António Gouveia Portela</i> . Lisboa/Portugal: IST Press. - Times Cited Google Scholar: 1

• Conferences/Workshops and Talks

- Publication in conference proceedings

1	Pontes, C., Fonseca, A., Moro, S., Batista, F., Ribeiro, R., Marques, C....Guerra, R. (2025). Unveiling Patterns of Hate Speech in the Portuguese Sphere: A Social Network Analysis Approach. In <i>Information Processing and Management of Uncertainty in Knowledge-Based Systems</i> . (pp. 70-81). - Times Cited Google Scholar: 2
2	Fialho, P., Ribeiro, R., Batista, F., Ramos, G., Fonseca, A., Moro, S....Silva, C. (2025). Counter Hate Speech Detection in Youtube Conversations. In <i>Information Processing and Management of Uncertainty in Knowledge-Based Systems</i> . (pp. 94-105). - Times Cited Google Scholar: 1
3	Ramos, G., Batista, F., Ribeiro, R., Fialho, P., Moro, S., Fonseca, A....Silva, C. (2025). Bypassing the Nuances of Portuguese Covert Hate Speech through Contextual Analysis. In <i>Progress in Artificial Intelligence. EPIA 2024. Lecture Notes in Computer Science</i> , vol. 14969. (pp. 241-253). Viana do Castelo: Springer. - Times Cited Google Scholar: 1

- Talk

1	Fonseca, A., Moro, S., pontes, C., Batista, F., Ribeiro, R., Marques, C....Guerra, R. (2024). Characterization of user positioning in online social media, application to hate speech conversations. <i>NetSci - International School and Conference on Network Science</i> .
2	Moro, S., Fonseca, A., pontes, C., Batista, F., Ribeiro, R., Marques, C....Guerra, R. (2024). Unveiling research on social networks in the Portuguese language. <i>NetSci - International School and Conference on Network Science</i> .
3	Marques, C., Guerra, R., Carvalho, P., Sarroeira, R., Fonseca, A., Batista, F....Moro, S. (2024). Online Hate Speech: How discursive phenomena and rhetorical mechanisms influence negative emotions?. <i>XXXI Meeting of the Portuguese Association of Classification and Data Analysis (JOCLAD 2024)</i> .

• Other Publications

- Other publications

1	Fonseca, A. & Louçã, Jorge (2013). Ways of communicating - a case study. <i>ECCS'13 - European Conference on Complex Systems</i> .
2	Fonseca, A. & Louçã, Jorge (2011). Validation in opinion dynamics modelling: Social Impact Theory and The Presidential Elections Case Study. <i>ECCS11</i> .

3	<p>Fonseca, A. & Louçã, Jorge (2009). Measuring Complexity in Multi-Agent Based Simulations, Entropy Density and Excess Entropy in the Minority Game. ECCS09.</p> <p>- Times Cited Google Scholar: 1</p>
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Research Projects

Project Title	Role in Project	Partners	Period
kNOwing online HATE speech: knowledge + awareness = TacklingHate	Researcher	CIS-Iscte (PsyChange) - Leader, BRU-Iscte, ISTAR-Iscte, CIES-Iscte, INESC-ID - (Portugal), IST-ID - (Portugal), ILGA Portugal - (Portugal), CBL - (Portugal), CICDR/ACM - (Portugal), SOS RACISMO - (Portugal)	2022 - 2024

Academic Management Positions

<p>Coordenador do 1º Ano (2025 - 2026) Unit/Area: Bachelor Degree in Digital Educational Technologies</p>
<p>Coordenador do 1º Ano (2025 - 2026) Unit/Area: Bachelor Degree in Digital Technologies and Artificial Intelligence</p>
<p>Presidente (2025 - 2028) Unit/Area: Comissão de Ética</p>
<p>Coordenador do 1º Ano (2024 - 2025) Unit/Area: Bachelor Degree in Digital Technologies and Artificial Intelligence</p>
<p>Coordenador do 2º Ano (2023 - 2024) Unit/Area: Bachelor Degree in Digital Technologies and Artificial Intelligence</p>