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## Anders Lyhne Christensen

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### Research Interests

Artificial Intelligence

Robotics

Swarm intelligence

Evolutionary computation

Simulation

### Academic Qualifications

University/Institution	Type	Degree	Period
IRIDIA, Univ. Libre de Bruxelles	PhD	Applied Sciences, Robotics and AI	2008
IRIDIA, Univ. Libre de Bruxelles	M.Sc.	Applied Sciences, Robotics and AI	2005
Aalborg University	M.Sc.	Computer Science	2003
Aalborg University	Bachelor of Science	Computer Science	2001

## Supervisions

### • Ph.D. Thesis

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Fernando Silva	--	English	FCUL	2017
2	Jorge Gomes	--	English	FCUL	2017
3	Miguel Duarte	--	English	Iscte	2016
4	Miguel António Frade Duarte	Engineering evolutionary control for real-world robotic systems	--	Iscte	2016

### • M.Sc. Dissertations

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Ivo Manuel Caeiro da Silva	EVOLUÇÃO DE MORFOLOGIA DE MÃOS PARA BRAÇOS ROBÓTICAS	Portuguese	Iscte	2018
2	Vasco Craveiro Vieira Teixeira da Costa	Synthesis of formation control for an aquatic swarm robotics system	English	Iscte	2018
3	João Ricardo Baptista de Matos	IoT Enabled Aquatic Drone for Environment Monitoring	English	Iscte	2016
4	Tiago Luís Santos Rodrigues	Sensor modulation and local communication in evolutionary robotics.	English	Iscte	2015
5	João Paulo Ribeiro Alves	Sistema robótico móvel controlado remotamente via Internet	Portuguese	Iscte	2013
6	Miguel António Frade Duarte	Hierarchical Evolution of Robotics Controllers for Complex Tasks	English	Iscte	2012
7	Hélio Alexandre Dias da Silva	--	--	Iscte	2011

## Total Citations

Web of Science®	1499
Scopus	2025

## Publications

### • Scientific Journals

#### - Scientific journal paper

1	<p>Mathews, N., Christensen, A. L., Stranieri, A., Scheidler, A. &amp; Dorigo, M. (2019). Supervised morphogenesis: exploiting morphological flexibility of self-assembling multirobot systems through cooperation with aerial robots. <i>Robotics and Autonomous Systems</i>. 112, 154-167</p> <p>- Times Cited Web of Science®: 20 - Times Cited Scopus: 19 - Times Cited Google Scholar: 27</p>
2	<p>Gomes, J., Mariano, P. &amp; Christensen, A. L. (2019). Challenges in cooperative coevolution of physically heterogeneous robot teams. <i>Natural Computing</i>. 18 (1), 29-46</p> <p>- Times Cited Web of Science®: 8 - Times Cited Scopus: 10 - Times Cited Google Scholar: 14</p>
3	<p>Ramos, R. P., Oliveira, S. M., Vieira, S. M. &amp; Christensen, A. L. (2019). Evolving flocking in embodied agents based on local and global application of Reynolds' rules. <i>PLoS One</i>. 14 (10)</p> <p>- Times Cited Web of Science®: 10 - Times Cited Scopus: 11 - Times Cited Google Scholar: 22</p>
4	<p>Gomes, J., Mariano, P. &amp; Christensen, A. L. (2018). Dynamic team heterogeneity in cooperative coevolutionary algorithms. <i>IEEE Transactions on Evolutionary Computation</i>. 22 (6), 934-948</p> <p>- Times Cited Web of Science®: 14 - Times Cited Scopus: 15 - Times Cited Google Scholar: 29</p>
5	<p>Duarte, M., Gomes, J., Oliveira, S. &amp; Christensen, A. L. (2018). Evolution of repertoire-based control for robots with complex locomotor systems. <i>IEEE Transactions on Evolutionary Computation</i>. 22 (2), 314-328</p> <p>- Times Cited Web of Science®: 44 - Times Cited Scopus: 49 - Times Cited Google Scholar: 82</p>
6	<p>Gomes, J., Oliveira, S. M. &amp; Christensen, A. L. (2018). An approach to evolve and exploit repertoires of general robot behaviours. <i>Swarm and Evolutionary Computation</i>. 43, 265-283</p> <p>- Times Cited Web of Science®: 11 - Times Cited Scopus: 13 - Times Cited Google Scholar: 16</p>
7	<p>Tarapore, D., Christensen, A. L. &amp; Timmis, J. (2017). Generic, scalable and decentralized fault detection for robot swarms. <i>PLoS One</i>. 12 (8)</p> <p>- Times Cited Web of Science®: 47 - Times Cited Scopus: 45 - Times Cited Google Scholar: 80</p>
8	<p>Mathews, N., Christensen, A. L., O'Grady, R., Mondada, F. &amp; Dorigo, M. (2017). Mergeable nervous systems for robots. <i>Nature Communications</i>. 8 (1)</p> <p>- Times Cited Web of Science®: 71 - Times Cited Scopus: 72 - Times Cited Google Scholar: 155</p>

9	<p>Silva, F., Correia, L. &amp; Christensen, A. L. (2017). Hyper-learning algorithms for online evolution of robot controllers. <i>ACM Transactions on Autonomous and Adaptive Systems</i>. 12 (3)</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 3</li> <li>- Times Cited Scopus: 1</li> <li>- Times Cited Google Scholar: 3</li> </ul>
10	<p>Gomes, J., Mariano, P. &amp; Christensen, A. L. (2017). Novelty-driven cooperative coevolution. <i>Evolutionary Computation</i>. 25 (2), 275-307</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 20</li> <li>- Times Cited Scopus: 25</li> <li>- Times Cited Google Scholar: 47</li> </ul>
11	<p>Silva, F., Correia, L. &amp; Christensen, A. L. (2017). Evolutionary online behaviour learning and adaptation in real robots. <i>Royal Society Open Science</i>. 4 (7)</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 16</li> <li>- Times Cited Scopus: 16</li> <li>- Times Cited Google Scholar: 24</li> </ul>
12	<p>Silva, F., Correia, L. &amp; Christensen, A. L. (2016). Evolutionary Robotics. <i>Scholarpedia</i>. 11 (7)</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 10</li> <li>- Times Cited Google Scholar: 13</li> </ul>
13	<p>Silva, F., Duarte, M., Correia, L., Oliveira, S. M. &amp; Christensen, A. L. (2016). Open issues in evolutionary robotics. <i>Evolutionary Computation</i>. 24 (2), 205-236</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 84</li> <li>- Times Cited Scopus: 91</li> <li>- Times Cited Google Scholar: 141</li> </ul>
14	<p>Duarte, M., Costa, V., Gomes, J., Rodrigues, T., Silva, F., Oliveira, S....Christensen, A. L. (2016). Evolution of collective behaviors for a real swarm of aquatic surface robots. <i>PLoS ONE</i>. 11 (3)</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 120</li> <li>- Times Cited Scopus: 111</li> <li>- Times Cited Google Scholar: 214</li> </ul>
15	<p>Tarapore, D., Lima, P., Carneiro, J. &amp; Christensen, A. L. (2015). To err is robotic, to tolerate immunological: fault detection in multirobot systems. <i>Bioinspiration and Biomimetics</i>. 10 (1)</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 37</li> <li>- Times Cited Scopus: 37</li> <li>- Times Cited Google Scholar: 55</li> </ul>
16	<p>Silva, F., Urbano, P., Correia, L. &amp; Christensen, A. L. (2015). odNEAT: an algorithm for decentralised online evolution of robotic controllers. <i>Evolutionary Computation</i>. 23 (3), 421-449</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 37</li> <li>- Times Cited Scopus: 38</li> <li>- Times Cited Google Scholar: 74</li> </ul>
17	<p>Duarte, M., Oliveira, S. M. &amp; Christensen, A. L. (2015). Evolution of hybrid robotic controllers for complex tasks. <i>Journal of Intelligent and Robotic Systems</i>. 78 (3-4), 463-484</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 22</li> <li>- Times Cited Scopus: 22</li> <li>- Times Cited Google Scholar: 45</li> </ul>
18	<p>Mathews, N., Valentini, G., Christensen, A. L., O'Grady, R., Brutschy, A. &amp; Dorigo, M. (2015). Spatially targeted communication in decentralized multirobot systems. <i>Autonomous Robots</i>. 38 (4), 439-457</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 9</li> <li>- Times Cited Scopus: 8</li> <li>- Times Cited Google Scholar: 19</li> </ul>

19	<p>Silva, F., Urbano, P. &amp; Christensen, A. L. (2014). Online evolution of adaptive robot behaviour. <i>International Journal of Natural Computing Research</i>. 4 (2), 59-77  - Times Cited Google Scholar: 21</p>
20	<p>Gomes, J., Urbano, P. &amp; Christensen, A. L. (2014). PMCNS: using a progressively stricter fitness criterion to guide novelty search. <i>International Journal of Natural Computing Research</i>. 4 (2), 1-19  - Times Cited Google Scholar: 5</p>
21	<p>Dorigo, M. &amp; Christensen, A. L. (2013). Swarmanoid: A novel concept for the study of heterogeneous robotic swarms. <i>IEEE Robotics and Automation Magazine</i>. 20 (4), 60-71  - Times Cited Scopus: 318  - Times Cited Google Scholar: 640</p>
22	<p>Pinciroli, C., O'Grady, R., Christensen, A. L., Biratti, M. &amp; Dorigo, M. (2013). Parallel formation of differently sized groups in a robotic swarm. <i>Journal of the Society of Instrument and Control Engineers</i>. 52 (3), 213-226  - Times Cited Google Scholar: 8</p>
23	<p>Gomes, J., Urbano, P. &amp; Christensen, A. L. (2013). Evolution of swarm robotics systems with novelty search. <i>Swarm Intelligence</i>. 7 (2-3), 115-144  - Times Cited Web of Science®: 124  - Times Cited Scopus: 112  - Times Cited Google Scholar: 200</p>
24	<p>O'Grady, R., Gross, R., Christensen, A. L. &amp; Dorigo, M. (2010). Self-assembly strategies in a group of autonomous mobile robots. <i>Autonomous Robots</i>. 28 (4), 439-455  - Times Cited Web of Science®: 46  - Times Cited Scopus: 53  - Times Cited Google Scholar: 108</p>
25	<p>Christensen, A. L., O'Grady, R. &amp; Dorigo, M. (2009). From fireflies to fault-tolerant swarms of robots. <i>IEEE Transactions on Evolutionary Computation</i>. 13 (4), 754-766  - Times Cited Web of Science®: 150  - Times Cited Scopus: 149  - Times Cited Google Scholar: 265</p>
26	<p>O'Grady, R., Christensen, A. L. &amp; Dorigo, M. (2009). SWARMORPH: multirobot morphogenesis using directional self-assembly. <i>IEEE Transactions on Robotics</i>. 25 (3), 738-743  - Times Cited Web of Science®: 48  - Times Cited Scopus: 58  - Times Cited Google Scholar: 112</p>
27	<p>Ampatzis, C., Tuci, E., Trianni, V., Christensen, A. L. &amp; Dorigo, M. (2009). Evolving self-assembly in autonomous homogeneous robots: experiments with two physical robots. <i>Artificial Life</i>. 15 (4), 465-484  - Times Cited Web of Science®: 40  - Times Cited Scopus: 54  - Times Cited Google Scholar: 100</p>
28	<p>Christensen, A. L., O'Grady, R., Biratti, M. &amp; Dorigo, M. (2008). Fault detection in autonomous robots based on fault injection and learning. <i>Autonomous Robots</i>. 24 (1), 49-67  - Times Cited Web of Science®: 88  - Times Cited Scopus: 87  - Times Cited Google Scholar: 155</p>

29	<p>Christensen, A. L., O'Grady, R. &amp; Dorigo, M. (2008). SWARMORPH-script: a language for arbitrary morphology generation in self-assembling robots. <i>Swarm Intelligence</i>. 2 (2-4), 143-165</p> <p>- Times Cited Scopus: 38</p> <p>- Times Cited Google Scholar: 72</p>
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## • Books and Book Chapters

### - Book author

1	<p>Gomes, J., Mariano, P. &amp; Christensen, A. L. (2014). Novelty search in competitive coevolution.</p> <p>- Times Cited Web of Science®: 7</p> <p>- Times Cited Google Scholar: 17</p>
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### - Book chapter

1	<p>Rodrigues, T., Duarte, M., Figueiró, M., Costa, V., Oliveira, S. &amp; Christensen, A. L. (2015). Overcoming limited onboard sensing in swarm robotics through local communication. In Ngoc Thanh Nguyen, Ryszard Kowalczyk, Béatrice Duval, Jaap van den Herik, Stephane Loiseau, Joaquim Filipe (Ed.), <i>Transactions on computational collective intelligence XX</i>. (pp. 201-223).: Springer.</p> <p>- Times Cited Scopus: 7</p> <p>- Times Cited Google Scholar: 12</p>
2	<p>O'Grady, R, Christensen, A. L. &amp; M. Dorigo (2013). SWARMORPH: Morphogenesis with Self-Assembling Robots. In Rene Doursat, Hiroki Sayama, and Olivier Michel (Ed.), <i>Morphogenetic Engineering</i>. (pp. 27-60).: Springer.</p> <p>- Times Cited Google Scholar: 24</p>
3	<p>Gross, R., O'Grady, R, Christensen, A. L. &amp; M. Dorigo (2013). The Swarm-bot experience: Strength and Mobility through Physical Cooperation. In Serge Kernbach (Ed.), <i>Handbook of Collective Robotics</i>. (pp. 49-80).: Pan Stanford Publishing.</p> <p>- Times Cited Scopus: 2</p> <p>- Times Cited Google Scholar: 8</p>

## • Conferences/Workshops and Talks

### - Publication in conference proceedings

1	<p>Duarte, M., Gomes, J., Costa, V., Rodrigues, T., Silva, F., Oliveira, S....Christensen, A. L. (2016). Application of swarm robotics systems to marine environmental monitoring. In <i>OCEANS 2016 - Shanghai</i>. Shanghai: IEEE.</p> <p>- Times Cited Google Scholar: 108</p>
2	<p>Costa, V., Duarte, M., Rodrigues, T., Oliveira, S. &amp; Christensen, A. L. (2016). Design and development of an inexpensive aquatic swarm robotics system. In <i>OCEANS 2016 - Shanghai</i>. Shanghai: IEEE.</p> <p>- Times Cited Google Scholar: 31</p>
3	<p>Duarte, M., Costa, V., Gomes, J., Rodrigues, T., Silva, F., Oliveira, S. M....Christensen, A. L. (2016). Unleashing the potential of evolutionary swarm robotics in the real world. In Friedrich T. (Ed.), <i>2016 Genetic and Evolutionary Computation Conference, GECCO 2016 Companion</i>. (pp. 159-160). Denver: ACM.</p> <p>- Times Cited Web of Science®: 7</p> <p>- Times Cited Google Scholar: 9</p>

4	<p>Gomes, J., Duarte, M., Mariano, P. &amp; Christensen, A. L. (2016). Cooperative coevolution of control for a real multirobot system. In Handl, J., Hart, E., Lewis, P. R., López-Ibáñez, M., Ochoa, G., and Paechter, B. (Ed.), Parallel Problem Solving from Nature – PPSN XIV. Lecture Notes in Computer Science. (pp. 591-601). Edinburgh: Springer.</p> <p>- Times Cited Web of Science®: 10 - Times Cited Google Scholar: 20</p>
5	<p>Ramos, R., Duarte, M., Oliveira, S. M. &amp; Christensen, A. L. (2016). Evolving controllers for robots with multimodal locomotion. In Tuci, E., Giagkos, A., Wilson, M., and Hallam, J. (Ed.), From Animals to Animats 14. Lecture Notes in Computer Science. (pp. 340-351). Aberystwyth: Springer.</p> <p>- Times Cited Web of Science®: 1 - Times Cited Google Scholar: 2</p>
6	<p>Silva, F., Correia, L. &amp; Christensen, A. L. (2016). Online hyper-evolution of controllers in multirobot systems. In Cabri, G., Picard, G., and Suri, N. (Ed.), 2016 IEEE 10th International Conference on Self-Adaptive and Self-Organizing Systems (SASO). (pp. 11-20). Augsburg: IEEE.</p> <p>- Times Cited Web of Science®: 10 - Times Cited Google Scholar: 7</p>
7	<p>Duarte, M., Gomes, J., Oliveira, S. M. &amp; Christensen, A. L. (2016). EvoRBC: Evolutionary repertoire-based control for robots with arbitrary locomotion complexity. In Friedrich, T. (Ed.), GECCO '16: Proceedings of the Genetic and Evolutionary Computation Conference 2016. (pp. 93-100). Denver Colorado, USA: Association for Computing Machinery.</p> <p>- Times Cited Web of Science®: 17 - Times Cited Google Scholar: 29</p>
8	<p>Trenkwalder, S. M., Lopes, Y. K., Kolling, A., Christensen, A. L., Prodan, R &amp; Gross, R. (2016). OpenSwarm: An event-driven embedded operating system for miniature robots. In 2016 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS). (pp. 4483-4490). Daejeon, Korea (South): IEEE.</p> <p>- Times Cited Web of Science®: 9 - Times Cited Google Scholar: 14</p>
9	<p>Duarte, M., Gomes, J., Costa, V., Oliveira, S. M. &amp; Christensen, A. L. (2016). Hybrid control for a real swarm robotics system in an intruder detection task. In Squillero G., Burelli P. (Ed.), 19th European Conference on Applications of Evolutionary Computation, EvoApplications 2016. (pp. 213-230). Porto: Springer.</p> <p>- Times Cited Web of Science®: 15 - Times Cited Google Scholar: 25</p>
10	<p>Silva, F., Correia, L. &amp; Christensen, A. (2015). R-HybrID: Evolution of agent controllers with a hybridisation of indirect and direct encodings. In Gerhard Weiss, Pnar Yolum (Ed.), Proceedings of the 14th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2015). (pp. 735-744). Istanbul: ACM.</p> <p>- Times Cited Web of Science®: 4 - Times Cited Scopus: 4 - Times Cited Google Scholar: 7</p>
11	<p>Christensen, A. L., Duarte, M., Postolache, O., Sargento, S., Oliveira, M.J., Santana, P...Silva, F. (2015). Design of communication and control for swarms of aquatic surface drones. In Stephane Loiseau, Joaquim Filipe (Ed.), Proceedings of the International Conference on Agents and Artificial Intelligence (ICAART-2015). Lisboa: SCITEPRESS.</p> <p>- Times Cited Scopus: 30 - Times Cited Google Scholar: 49</p>
12	<p>Fernando Velez, A. Nadziejko, Christensen, A. L., Oliveira, S., Tiago Rodrigues, Vasco Costa...J. Gomes (2015). Experimental Characterization of WSNs Applied to Swarms of Aquatic Surface Drones. In Proceedings of the 10th Conference on Telecommunications (CONFTELE).</p> <p>- Times Cited Google Scholar: 2</p>

13	<p>Romano, P., Nunes, L., Christensen, A. L., Duarte, M. &amp; Oliveira, S. (2015). Genome variations: Effects on the robustness of neuroevolved control for swarm robotics systems. In Luís Paulo Reis, António Paulo Moreira, Pedro U. Lima, Luis Montano, Victor Muñoz-Martinez (Ed.), Proceedings of the ROBOT'2015: Second Iberian Robotics. Lisboa: Springer.</p> <p>- Times Cited Google Scholar: 2</p>
14	<p>Gomes, J., Mariano, P. &amp; Christensen, A. L. (2015). Cooperative coevolution of partially heterogeneous multiagent systems. In Elkind, E., Bordini, R. H., Weiss, G., and Yolum P. (Ed.), Proceedings of the 14th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2015). (pp. 297-305). Istanbul: International Foundation for Autonomous Agents and Multiagent Systems.</p> <p>- Times Cited Google Scholar: 30</p>
15	<p>Fernando, V., Nadziejko, A. , Christensen, A. L., Oliveira, S., Rodrigues, T., Costa, V...Gomes, J. (2015). Wireless sensor and networking technologies for swarms of aquatic surface drones. In 2015 IEEE 81st Vehicular Technology Conference (VTC Spring). Boston: IEEE.</p> <p>- Times Cited Google Scholar: 41</p>
16	<p>Gomes, J., Mariano, P. &amp; Christensen, A. L. (2015). Devising effective novelty search algorithms: A comprehensive empirical study. In Proceedings of the 2015 Annual Conference on Genetic and Evolutionary Computation. (pp. 943-950): MIT Press.</p> <p>- Times Cited Web of Science®: 77</p> <p>- Times Cited Scopus: 84</p> <p>- Times Cited Google Scholar: 138</p>
17	<p>Gomes, J., Mariano, P. &amp; Christensen, A. L. (2015). Cooperative coevolution of morphologically heterogeneous robots. In ECAL 2015: the 13th European Conference on Artificial Life. (pp. 312-319). York: MIT Press.</p> <p>- Times Cited Web of Science®: 5</p> <p>- Times Cited Google Scholar: 7</p>
18	<p>Gomes, J., Mariano, P. &amp; Christensen, A. L. (2015). Cooperative coevolution of partially heterogeneous multiagent systems. In Proceedings of the 14th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2015). (pp. 297-305).</p> <p>- Times Cited Google Scholar: 30</p>
19	<p>Rodrigues, T., Duarte, M., Oliveira, S. &amp; Christensen, A. (2015). Beyond onboard sensors in robotic swarms: Local collective sensing through situated communication. In Stephane Loiseau, Joaquim Filipe (Ed.), ICAART 2015: Proceedings of the International Conference on Agents and Artificial Intelligence. Lisboa: SCITEPRESS.</p> <p>- Times Cited Google Scholar: 10</p>
20	<p>Gomes, J., Mariano, P. &amp; Christensen, A. L. (2015). Hyb-CCEA: Cooperative Coevolution of Hybrid Teams. In Sara Silva (Ed.), Proceedings of the Companion Publication of the 2015 Annual Conference on Genetic and Evolutionary Computation. (pp. 1251-1252). Madrid Spain: ACM.</p> <p>- Times Cited Google Scholar: 1</p>
21	<p>Gomes, J., Mariano, P. &amp; Christensen, A. (2015). Cooperative coevolution of partially heterogeneous multiagent systems. In Elkind Bordini, Yolum Weiss (Ed.), Proceedings of the 14th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2015). (pp. 297-305). Istanbul: IFAAMAS.</p> <p>- Times Cited Web of Science®: 11</p> <p>- Times Cited Scopus: 19</p> <p>- Times Cited Google Scholar: 29</p>
22	<p>Fernando Silva, Correia, L. &amp; Christensen, A. L. (2014). Speeding up Online Evolution of Robotic Controllers with Macro-neurons. In Proceedings of European Conference on the Applications of Evolutionary Computation (EvoApplications, EvoRobot track). (pp. 765-776). Granada: Springer.</p> <p>- Times Cited Web of Science®: 9</p> <p>- Times Cited Google Scholar: 15</p>

23	J. Gomes, P. Mariano & Christensen, A. L. (2014). Novelty Search in Competitive Coevolution. In Proceedings of the International Conference on Parallel Problem Solving from Nature (PPSN). (pp. 233-242). Prag: Springer. - Times Cited Scopus: 7
24	Duarte, M., Silva, F., Rodrigues, T., Oliveira, S. & Christensen, A. L. (2014). JBotEvolver: A versatile simulation platform for evolutionary robotics. In H. Sayama, J. Reiffel, S. Risi, R. Doursat and H. Lipson (Ed.), Proceedings of the Fourteenth International Conference on the Synthesis and Simulation of Living Systems. New York: MIT Press. - Times Cited Web of Science®: 32 - Times Cited Scopus: 32 - Times Cited Google Scholar: 51
25	J. Gomes, P. Mariano & Christensen, A. L. (2014). Systematic Derivation of Behaviour Characterisations in Evolutionary Robotics. In Proceedings of the Fourteenth International Conference on the Synthesis and Simulation of Living Systems (ALIFE). (pp. 212-219). New York: MIT Press. - Times Cited Scopus: 18 - Times Cited Google Scholar: 27
26	Silva, F., Duarte, M., Oliveira, S., Correia, L. & Christensen, A. (2014). The case for engineering the evolution of robot controllers. In H. Sayama, J. Reiffel, S. Risi, R. Doursat and H. Lipson (Ed.), Proceedings of the Fourteenth International Conference on the Synthesis and Simulation of Living Systems. New York: MIT Press. - Times Cited Web of Science®: 10 - Times Cited Google Scholar: 21
27	Rodrigues, T., Duarte, M., Oliveira, S. & Christensen, A. (2014). What you choose to see is what you get: An experiment with learnt sensory modulation in a robotic foraging task. In Anna I. Esparcia-Alcázar, Antonio M. Mora (Ed.), Applications of Evolutionary Computation: 17th European Conference Evo Applications 2014. (pp. 789-801). Granada: Springer. - Times Cited Web of Science®: 1 - Times Cited Scopus: 1 - Times Cited Google Scholar: 4
28	Mariano, P., Christensen, A. L. & Gomes, J. (2014). Avoiding convergence in cooperative coevolution with novelty search. In Ana Bazzan, Michael Huhns (Ed.), Proceedings of the 13th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2014). (pp. 1149-1156).: International Foundation for Autonomous Agents and Multiagent Systems. - Times Cited Web of Science®: 21 - Times Cited Scopus: 26 - Times Cited Google Scholar: 42
29	Mariano, P., Christensen, A. L. & Gomes, J. (2014). Novelty search in competitive coevolution. In Thomas Bartz-Beielstein, Jürgen Branke, Bogdan Filipi, Jim Smith (Ed.), Parallel Problem Solving from Nature -- PPSN XIII, Conference Proceedings. Ljubljana: Springer.
30	Duarte, M., Oliveira, S. & Christensen, A. L. (2014). Evolution of Hierarchical Controllers for Multirobot Systems. In Proceedings of the 14th International Conference on the Synthesis & Simulation of Living Systems (ALIFE). MIT Press, Cambridge, MA. - Times Cited Web of Science®: 12 - Times Cited Scopus: 12 - Times Cited Google Scholar: 22

31	<p>Duarte, M., Oliveira, S. &amp; Christensen, A. L. (2014). Hybrid control for large swarms of aquatic drones. In Proceedings of the Fourteenth International Conference on the Synthesis &amp; Simulation of Living Systems (ALIFE). MIT Press, Cambridge, MA.</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 26</li> <li>- Times Cited Scopus: 31</li> <li>- Times Cited Google Scholar: 53</li> </ul>
32	<p>J. Gomes &amp; Christensen, A. L. (2013). Generic Behaviour Similarity Measures for Evolutionary Swarm Robotics. In Proceedings of Genetic and Evolutionary Computation Conference (GECCO). (pp. 199-206): ACM Press.</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 38</li> <li>- Times Cited Scopus: 43</li> <li>- Times Cited Google Scholar: 64</li> </ul>
33	<p>Christensen, A. L., Correia, L. &amp; Fernando Silva (2013). Dynamics of Neuronal Models in Online Neuroevolution of Robotic Controllers. In Proceedings of the 16th Portuguese Conference on Artificial Intelligence (EPIA). (pp. 90-101): Springer.</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 8</li> <li>- Times Cited Scopus: 6</li> <li>- Times Cited Google Scholar: 8</li> </ul>
34	<p>P. Szczawinski, Duarte, M., Oliveira, S. &amp; Christensen, A. L. (2013). Toward Evolved Vision-based Control for a Quadcopter. In Proceedings of the 9th Conference on Telecommunications (CONFTELE).</p> <ul style="list-style-type: none"> <li>- Times Cited Google Scholar: 1</li> </ul>
35	<p>Duque, C., Duarte, M., Ribeiro, M., Oliveira, S., Christensen, A. L. &amp; Souto, N. (2013). Real-time Control of a Mobile Robot Using Electrooculography. In International Conference on Telecommunications, ConfTele 2013.</p> <ul style="list-style-type: none"> <li>- Times Cited Google Scholar: 1</li> </ul>
36	<p>Alves, J.P., Oliveira, S. &amp; Christensen, A. L. (2013). NXTTour: an open source robotic system operated over the internet. In Proceedings of the Workshop on Open Source and Design of Communication. (pp. 18-23).</p>
37	<p>Tarapore, D., Christensen, A. L., Lima, P. &amp; Carneiro, J. (2013). Abnormality Detection in Multiagent Systems Inspired by the Adaptive Immune System. In Proceedings of the 12th International Conference on Autonomous Agents and Multiagent Systems (AAMAS). (pp. 23-30): IFAAMAS.</p> <ul style="list-style-type: none"> <li>- Times Cited Scopus: 11</li> <li>- Times Cited Google Scholar: 21</li> </ul>
38	<p>Silva, F., Urbano, P. &amp; Christensen, A. L. (2012). Adaptation of robot behaviour through online evolution and neuromodulated learning. In Pavón, J., Duque-Méndez, N. D., and Fuentes-Fernández, R. (Ed.), Advances in Artificial Intelligence – IBERAMIA 2012. Lecture Notes in Computer Science. (pp. 300-309). Cartagena de Indias, Colombia: Springer.</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 6</li> <li>- Times Cited Scopus: 7</li> <li>- Times Cited Google Scholar: 16</li> </ul>
39	<p>Silva, F., Urbano, P., Oliveira, S. &amp; Christensen, A. L. (2012). OdNEAT: An algorithm for distributed online, onboard evolution of robot behaviours. In Artificial Life 13: Proceedings of the 13th International Conference on the Simulation and Synthesis of Living Systems, ALIFE 2012 . (pp. 251-258). East Lansing, MI, United States: MIT.</p> <ul style="list-style-type: none"> <li>- Times Cited Scopus: 30</li> <li>- Times Cited Google Scholar: 65</li> </ul>
40	<p>Gomes, J., Urbano, P. &amp; Christensen, A. L. (2012). Introducing Novelty Search in Swarm Robotics. In Eight International Conference on Swarm Intelligence (ANTS). (pp. 85-96). Brussels, Belgium</p> <ul style="list-style-type: none"> <li>- Times Cited Scopus: 13</li> </ul>

41	<p>Duarte, M., Oliveira, S. &amp; Christensen, A. L. (2012). Automatic synthesis of controllers for real robots based on preprogrammed behaviors. In Ziemke, T., Balkenius, C., and Hallam, J. (Ed.), <i>From Animals to Animats 12. SAB 2012. Lecture Notes in Computer Science.</i> (pp. 249-258). Odense: Springer.</p> <p>- Times Cited Scopus: 6 - Times Cited Google Scholar: 11</p>
42	<p>Tarapore, D., Christensen, A. L., Lima, P. U. &amp; Carneiro, J. (2012). Environment classification in multiagent systems inspired by the adaptive immune system. In <i>Artificial Life 13: Proceedings of the 13th International Conference on the Simulation and Synthesis of Living Systems, ALIFE 2012.</i> (pp. 275-282). East Lansing, MI, United States: MIT.</p> <p>- Times Cited Scopus: 3 - Times Cited Google Scholar: 5</p>
43	<p>Tarapore, D., Christensen, A. L., Lima, P. U. &amp; Carneiro, J. (2012). Clonal expansion without self-replicating entities. In Coello Coello, C. A., Greensmith, J., Krasnogor, N., Liò, P., Nicosia, G., and Pavone, M. (Ed.), <i>Artificial Immune Systems. ICARIS 2012. Lecture Notes in Computer Science.</i> (pp. 191-204). Taormina, Italy: Springer.</p> <p>- Times Cited Scopus: 3 - Times Cited Google Scholar: 4</p>
44	<p>Duarte, M., Oliveira, S. &amp; Christensen, A. L. (2012). Hierarchical evolution of robotic controllers for complex tasks. In <i>Development and Learning and Epigenetic Robotics (ICDL), 2012 IEEE International Conference on.</i> (pp. 0-0).</p> <p>- Times Cited Scopus: 27 - Times Cited Google Scholar: 34</p>
45	<p>Duarte, M., Oliveira, S. &amp; Christensen, A. L. (2012). Structured Composition of Evolved of Robotic Controllers. In <i>5th International Workshop on Evolutionary and Reinforcement Learning for Autonomous Robot Systems.</i> (pp. 0-0). Montpellier</p>
46	<p>Fernando Silva, Christensen, A. L. &amp; Urbano, P. (2012). Continuous Adaptation of Robot Behaviour through Online Evolution and Neuromodulated Learning. In <i>International Workshop on Evolutionary and Reinforcement Learning for Autonomous Robot Systems.</i> (pp. 9-18).</p> <p>- Times Cited Google Scholar: 4</p>
47	<p>O'Grady, R, Christensen, A. L., Gross, R. &amp; M. Dorigo (2012). Self-organised Computational Structures for Real Time Analysis in Highly Distributed Environmental Monitoring. In <i>IROS2012 Workshop on Robotics for Environmental Monitoring.</i> (pp. 0-0).</p> <p>- Times Cited Google Scholar: 1</p>
48	<p>Gomes, J., Urbano, P. &amp; Christensen, A. L. (2012). Progressive Minimal Criteria Novelty Search. In <i>13th Ibero-American Conference on Artificial Intelligence (IBERAMIA).</i> (pp. 281-290).</p> <p>- Times Cited Web of Science®: 20 - Times Cited Scopus: 21 - Times Cited Google Scholar: 43</p>
49	<p>N. Mathews, Christensen, A. L., P. Rétornaz, M. Bonani, F. Mondada &amp; M. Dorigo (2011). Enhanced Directional Self-Assembly based on Active Recruitment and Guidance. In <i>IFAAMAS (Ed.), the 2011 IEEE/RSJ International Conference on Intelligent Robots and System.</i> (pp. 4762-4769).: IFAAMAS.</p> <p>- Times Cited Scopus: 9 - Times Cited Google Scholar: 17</p>

50	Duarte, M., Christensen, A. L. & Oliveira, S. (2011). Towards Artificial Evolution of Complex Behaviors Observed in Insect Colonies. In Luis Antunes, H. Sofia Pinto (Ed.), 15th Portuguese Conference on Artificial Intelligence, EPIA 2011, Lisbon, Portugal, October 10-13, 2011. (pp. 153-167). Lisboa: Springer. - Times Cited Web of Science®: 4 - Times Cited Scopus: 7 - Times Cited Google Scholar: 15
51	Silva, H, Christensen, A. L. & Oliveira, S. (2011). Performance study of Conillon: a platform for distributed computing. In Carlos J. Costa (Ed.), Workshop open source and design of communication (OSDOC2010). (pp. 13-18). Lisboa: ACM. - Times Cited Scopus: 3 - Times Cited Google Scholar: 6
52	Oliveira, S., Nunes, L. & Christensen, A. L. (2011). An experiment in mixing evolving and preprogrammed robots. In Lenaerts, T., Giacobini, M., Bersini, H., Bourguine, P., Dorigo, M., and Doursat, T. (Ed.), Advances in Artificial Life: 20th Anniversary Edition - Back to the Origins of Alife, ECAL 2011. (pp. 605-612). Paris: MIT Press.
53	Silva, H, Christensen, A. L. & Oliveira, S. (2010). Building and designing a distributed computing platform. In Proceedings of the Workshop on Open Source and Design of Communication. (pp. 55-58). New York, NY, USA: ACM. - Times Cited Google Scholar: 1

#### - Conference proceedings editor

1	M. Dorigo, Biratti, M., Blum, C., Christensen, A. L., Engelbrecht, A., Gross, R....Stutzle, T. (2012). International Conference on Swarm Intelligence (ANTS). Brussels, Belgium. Springer.
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#### - Talk

1	Duarte, M., J. Gomes, Vasco Costa, Oliveira, S. & Christensen, A. L. (2016). Applications of Evolutionary Computation: 19th European Conference, EvoApplications 2016, Porto, Portugal, March 30 -- April 1, 2016, Proceedings, Part II. Applications of Evolutionary Computation. - Times Cited Scopus: 9
2	Gomes, J., Duarte, M., Mariano, P. & Christensen, A. L. (2016). Cooperative Coevolution of Control for a Real Multirobot System. Parallel Problem Solving from Nature – PPSN XIV. LNCS 9921, 591-601 - Times Cited Web of Science®: 5 - Times Cited Scopus: 5
3	Silva, F., Correia, L. & Christensen, A. L. (2016). Online Hyper-evolution of Controllers in Multirobot Systems. 2016 10th International Conference on Self-Adaptive and Self-Organizing Systems (SASO) . 11-20 - Times Cited Web of Science®: 9 - Times Cited Scopus: 3
4	Trenkwalder, S., Lopes, Y. K., Kolling, A, Christensen, A. L., Prodan, R & Gross, R. (2016). OpenSwarm: An event-driven embedded operating system for miniature robots. 2016 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS). 1-8
5	Rita Ramos, Duarte, M., Oliveira, S. & Christensen, A. L. (2016). Evolving Controllers for Robots with Multimodal Locomotion. From Animals to Animats 14. LNCS 9825, 340-351

6	<p>Duarte, M., J. Gomes, Oliveira, S. &amp; Christensen, A. L. (2016). EvoRBC: Evolutionary Repertoire-based Control for Robots with Arbitrary Locomotion Complexity. Proceedings of the Genetic and Evolutionary Computation Conference (GECCO).</p> <p>- Times Cited Web of Science®: 11 - Times Cited Scopus: 12</p>
7	<p>Duarte, M., J. Gomes, Vasco Costa, Tiago Rodrigues, Fernando Silva, Oliveira, S....Christensen, A. L. (2016). Application of Swarm Robotic Systems to Marine Environmental Monitoring. Proceedings of IEEE/MTS OCEANS.</p> <p>- Times Cited Scopus: 34</p>
8	<p>Vasco Costa, Duarte, M., Tiago Rodrigues, Oliveira, S. &amp; Christensen, A. L. (2016). Design and Development of an Inexpensive Aquatic Swarm Robotics System. Proceedings of IEEE/MTS OCEANS.</p> <p>- Times Cited Scopus: 10</p>
9	<p>Duarte, M., Vasco Costa, J. Gomes, Tiago Rodrigues, Fernando Silva, Oliveira, S....Christensen, A. L. (2016). Unleashing the Potential of Evolutionary Swarm Robotics in the Real World. Proceedings of the Genetic and Evolutionary Computation Conference (GECCO).</p> <p>- Times Cited Web of Science®: 5 - Times Cited Scopus: 3</p>
10	<p>Fernando Velez, A. Nadziejko, Christensen, A. L., Oliveira, S., Tiago Rodrigues, Vasco Costa...J. Gomes (2015). Experimental Characterization of WSNs Applied to Swarms of Aquatic Surface Drones. Proceedings of the 10th Conference on Telecommunications (CONFTELE).</p>
11	<p>Fernando Velez, A. Nadziejko, Christensen, A. L., Oliveira, S., Tiago Rodrigues, Vasco Costa...J. Gomes (2015). Wireless Sensor and Networking Technologies for Swarms of Aquatic Surface Drones. Proceedings of the IEEE 82nd Vehicular Technology Conference.</p> <p>- Times Cited Web of Science®: 1 - Times Cited Scopus: 16</p>
12	<p>Tiago Rodrigues, Duarte, M., Oliveira, S. &amp; Christensen, A. L. (2015). Beyond Onboard Sensors in Robotic Swarms: Local Collective Sensing through Situated Communication. 7th International Conference on Agents and Artificial Intelligence (ICAART). 2, 111-118</p> <p>- Times Cited Scopus: 3</p>
13	<p>J. Gomes, P. Mariano &amp; Christensen, A. L. (2015). Cooperative Coevolution of Morphologically Heterogeneous Robots. Proceedings of the European Conference on Artificial Life. 1, 312-319</p>
14	<p>Fernando Silva, Correia, L. &amp; Christensen, A. L. (2015). R-HybrID: Evolution of Agent Controllers with a Hybridisation of Indirect and Direct Encodings. Proceedings of the 2015 International Conference on Autonomous Agents and Multiagent Systems . 1, 735-744</p>
15	<p>J. Gomes, P. Mariano &amp; Christensen, A. L. (2015). Cooperative Coevolution of Partially Heterogeneous Multiagent Systems. Proceedings of the 2015 International Conference on Autonomous Agents and Multiagent Systems . 1, 297-305</p>
16	<p>Tarapore, D., Christensen, A. L. &amp; Timmis, J. (2015). Abnormality Detection in Robots Exhibiting Composite Swarm Behaviours. Proceedings of the European Conference on Artificial Life. 1, 406-413</p>
17	<p>Fernando Silva, Correia, L. &amp; Christensen, A. L. (2014). Speeding up Online Evolution of Robotic Controllers with Macro-neurons. Proceedings of European Conference on the Applications of Evolutionary Computation (EvoApplications, EvoRobot track). LNCS 8602, 765-776</p> <p>- Times Cited Web of Science®: 6 - Times Cited Scopus: 6</p>

18	J. Gomes, P. Mariano & Christensen, A. L. (2014). Novelty Search in Competitive Coevolution. Proceedings of the International Conference on Parallel Problem Solving from Nature (PPSN). LNCS8672, 233-242
19	J. Gomes, P. Mariano & Christensen, A. L. (2014). Systematic Derivation of Behaviour Characterisations in Evolutionary Robotics. Proceedings of the Fourteenth International Conference on the Synthesis and Simulation of Living Systems (ALIFE). 212-219
20	Fernando Silva, Duarte, M., Correia, L., Oliveira, S. & Christensen, A. L. (2014). The Case for Engineering the Evolution of Robot Controllers. Proceedings of the 14th International Conference on the Synthesis & Simulation of Living Systems (ALIFE). - Times Cited Scopus: 9
21	Tiago Rodrigues, Duarte, M., Oliveira, S. & Christensen, A. L. (2014). What You Choose to See is What You Get: An Experiment with Learnt Sensory Modulation in a Robotic Foraging Task. Proceedings of European Conference on the Applications of Evolutionary Computation (EvoApplications, EvoRobot track), Springer.
22	Duarte, M., Oliveira, S. & Christensen, A. L. (2014). Evolution of Hierarchical Controllers for Multirobot Systems. Proceedings of the 14th International Conference on the Synthesis & Simulation of Living Systems (ALIFE). MIT Press, Cambridge, MA.
23	Duarte, M., Oliveira, S. & Christensen, A. L. (2014). Hybrid control for large swarms of aquatic drones. Proceedings of the Fourteenth International Conference on the Synthesis & Simulation of Living Systems (ALIFE). MIT Press, Cambridge, MA.
24	Gomes, J., Mariano, P. & Christensen, A. L. (2014). Diversity-based Coevolution of Behaviourally Heterogeneous Multirobot Systems. Workshop on Nature-inspired Techniques for Robotics at PPSN. - Times Cited Google Scholar: 1
25	Duarte, M., Fernando Silva, Tiago Rodrigues, Oliveira, S. & Christensen, A. L. (2014). JBotEvolver: A versatile simulation platform for evolutionary robotics. Proceedings of the 14th International Conference on the Synthesis & Simulation of Living Systems (ALIFE). MIT Press, Cambridge, MA.
26	Christensen, A. L., Correia, L. & Fernando Silva (2013). Dynamics of Neuronal Models in Online Neuroevolution of Robotic Controllers. Proceedings of the 16th Portuguese Conference on Artificial Intelligence (EPIA). LNAI8154, 90-101
27	P. Szczawinski, Duarte, M., Oliveira, S. & Christensen, A. L. (2013). Toward Evolved Vision-based Control for a Quadcopter. Proceedings of the 9th Conference on Telecommunications (CONFTELE).
28	Alves, J.P., Oliveira, S. & Christensen, A. L. (2013). NXTTour: an open source robotic system operated over the internet. Proceedings of the Workshop on Open Source and Design of Communication. 18-23
29	Tarapore, D., Christensen, A. L., Lima, P. & Carneiro, J. (2013). Abnormality Detection in Multiagent Systems Inspired by the Adaptive Immune System. Proceedings of the 12th International Conference on Autonomous Agents and Multiagent Systems (AAMAS). 23-30
30	J. Gomes & Christensen, A. L. (2013). Generic Behaviour Similarity Measures for Evolutionary Swarm Robotics. Proceedings of Genetic and Evolutionary Computation Conference (GECCO). 199-206
31	Fernando Silva, Urbano, P., Oliveira, S. & Christensen, A. L. (2012). odNEAT: An Algorithm for Distributed Online, Onboard Evolution of Robot Behaviours. The Thirteenth International Conference on the Synthesis and Simulation of Living Systems.

32	Duarte, M., Oliveira, S. & Christensen, A. L. (2012). Structured Composition of Evolved of Robotic Controllers. Proceedings of the 5th International Workshop on Evolutionary and Reinforcement Learning for Autonomous Robot Systems.
33	Duarte, M., Oliveira, S. & Christensen, A. L. (2012). Automatic Synthesis of Controllers for Real Robots Based on Preprogrammed Behaviors. 12th International Conference on Adaptive Behavior. 249-258
34	Duarte, M., Oliveira, S. & Christensen, A. L. (2012). Hierarchical evolution of robotic controllers for complex tasks. Development and Learning and Epigenetic Robotics (ICDL), 2012 IEEE International Conference on. 0-0 - Times Cited Web of Science®: 7
35	Tarapore, D., Christensen, A. L., Lima, P. & Carneiro, J. (2012). Environment classification in multiagent systems inspired by the adaptive immune system. Thirteenth International Conference on the Synthesis and Simulation of Living Systems (ALIFE).
36	Gomes, J., Urbano, P. & Christensen, A. L. (2012). Progressive Minimal Criteria Novelty Search. 13th Ibero-American Conference on Artificial Intelligence (IBERAMIA).
37	Gomes, J., Urbano, P. & Christensen, A. L. (2012). Introducing Novelty Search in Swarm Robotics. 8th International Conference on Swarm Intelligence (ANTS).
38	Tarapore, D., Christensen, A. L., Lima, P. & Carneiro, J. (2012). Clonal expansion without self-replicating entities. 11th International Conference on Artificial Immune Systems (ICARIS).
39	Fernando Silva, Urbano, P. & Christensen, A. L. (2012). Adaptation of Robot Behaviour through Online Evolution and Neuromodulated Learning. 13th Ibero-American Conference on Artificial Intelligence (IBERAMIA).
40	Fernando Silva, Urbano, P. & Christensen, A. L. (2012). Continuous Adaptation of Robot Behaviour through Online Evolution and Neuromodulated Learning. International Workshop on Evolutionary and Reinforcement Learning for Autonomous Robot Systems.
41	O'Grady, R, Christensen, A. L., Gross, R. & M. Dorigo (2012). Self-organised Computational Structures for Real Time Analysis in Highly Distributed Environmental Monitoring. IROS2012 Workshop on Robotics for Environmental Monitoring.

## • Other Publications

### - Non-peer-reviewed papers

1	Silva, F., Correia, L. & Christensen, A. L. (2017). Evolutionary online learning in multirobot systems. AI Matters. 3 (1), 23-24 - Times Cited Web of Science®: 1 - Times Cited Google Scholar: 2
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### - Recensions in journals

1	Christensen, A. L. (2012). Self-reconfigurable Robots -- An Introduction (book review). Artificial Life. 18 (2), 237-240
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### - Other publications

1	Gomes, J., Mariano, P. & Christensen, A. L. (2014). Systematic derivation of behaviour characterisations in evolutionary robotics. International Conference on the Synthesis and Simulation of Living Systems (ALife). - Times Cited Web of Science®: 14 - Times Cited Google Scholar: 27
2	Dorigo, M., Biratti, M., Blum, C., Christensen, A. L., Engelbrecht, A., Gross, R....Stutzle, T. (2013). ANTS 2012 special issue. Swarm Intelligence. 7 (2-3), 79-81 - Times Cited Web of Science®: 1 - Times Cited Scopus: 1 - Times Cited Google Scholar: 7

## Research Projects

Project Title	Role in Project	Partners	Period
Control of Aquatic Drones for Maritime Tasks	Researcher	IT-Iscte	2014 - 2015
Remote Piloted Semi-Autonomous Aerial Surveillance System Using Terrestrial Wireless Networks	Researcher	IT-Iscte	2012 - 2014

## Academic Management Positions

Director (2011 - 2013)  
Unit/Area: Bachelor Degree in Computer Engineering

## Professional Associations

IEEE Senior Member (-)