Miguel António Frade Duarte

Total Citations

Web of Science®	377
Scopus	431

Publications

- **Scientific Journals**

- Scientific journal paper

1	Duarte, M., Gomes, J., Oliveira, S. & Christensen, A. L. (2018). Evolution of repertoire-based control for robots with complex locomotor systems. IEEE Transactions on Evolutionary Computation. 22 (2), 314-328 - Times Cited Web of Science®: 44 - Times Cited Scopus: 49 - Times Cited Google Scholar: 82
2	Silva, F., Duarte, M., Correia, L., Oliveira, S. M. & Christensen, A. L. (2016). Open issues in evolutionary robotics. Evolutionary Computation. 24 (2), 205-236 - Times Cited Web of Science®: 84 - Times Cited Scopus: 91 - Times Cited Google Scholar: 141

3	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. PLoS ONE. 11 (3) - Times Cited Web of Science®: 120 - Times Cited Scopus: 111 - Times Cited Google Scholar: 214
4	Duarte, M., Oliveira, S. M. & Christensen, A. L. (2015). Evolution of hybrid robotic controllers for complex tasks. Journal of Intelligent and Robotic Systems. 78 (3-4), 463-484 - Times Cited Web of Science®: 22 - Times Cited Scopus: 22 - Times Cited Google Scholar: 45

• Books and Book Chapters

- Book chapter

1	Rodrigues, T., Duarte, M., Figueiró, M., Costa, V., Oliveira, S. & 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.), Transactions on computational collective intelligence XX. (pp. 201-223).: Springer. - Times Cited Scopus: 7 - Times Cited Google Scholar: 12

• Conferences/Workshops and Talks

- Publication in conference proceedings

1	Gomes, J., Duarte, M., Mariano, P. & 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. - Times Cited Web of Science®: 10 - Times Cited Google Scholar: 20
2	Rodrigues, T., Duarte, M., Oliveira, S. & 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. - Times Cited Google Scholar: 10
3	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. - Times Cited Scopus: 30 - Times Cited Google Scholar: 49
4	Romano, P., Nunes, L., Christensen, A. L., Duarte, M. & 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. - Times Cited Google Scholar: 2

5	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
6	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
7	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
8	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
9	Duarte, M., Oliveira, S. & Christensen, A. L. (2014). Hybrid control for large swarms of aquatic drones. In Proceedings of the Fourteenth International Conference on the Synthesis \& Simulation of Living Systems (ALIFE). MIT Press, Cambridge, MA. - Times Cited Web of Science®: 26 - Times Cited Scopus: 31 - Times Cited Google Scholar: 53
10	P. Szczawinski, Duarte, M., Oliveira, S. & Christensen, A. L. (2013). Toward Evolved Vision-based Control for a Quadrocopter. In Proceedings of the 9th Conference on Telecommunications (CONFTELE). - Times Cited Google Scholar: 1
11	Duque, C., Duarte, M., Ribeiro, M., Oliveira, S., Christensen, A. L. & Souto, N. (2013). Real-time Control of a Mobile Robot Using Electrooculography. In International Conference on Telecommunications, ConfTele 2013. - Times Cited Google Scholar: 1
12	Duarte, M., Oliveira, S. & Christensen, A. L. (2012). Hierarchical evolution of robotic controllers for complex tasks. In Development and Learning and Epigenetic Robotics (ICDL), 2012 IEEE International Conference on. (pp. 0-0). - Times Cited Scopus: 27 - Times Cited Google Scholar: 34
13	Duarte, M., Oliveira, S. & Christensen, A. L. (2012). Structured Composition of Evolved of Robotic Controllers. In 5th International Workshop on Evolutionary and Reinforcement Learning for Autonomous Robot Systems. (pp. 0-0). Montpellier

14	Duarte, M., Oliveira, S. & Christensen, A. L. (2012). Automatic synthesis of controllers for real robots based on preprogrammed behaviors. In Ziemke, T., Balkenius, C., and Hallam, J. (Ed.), From Animals to Animats 12. SAB 2012. Lecture Notes in Computer Science. (pp. 249-258). Odense: Springer. - Times Cited Scopus: 6 - Times Cited Google Scholar: 11
15	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

- Talk

1	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
2	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.
3	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.
4	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.
5	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.
6	P. Szczawinski, Duarte, M., Oliveira, S. & Christensen, A. L. (2013). Toward Evolved Vision-based Control for a Quadrocopter. Proceedings of the 9th Conference on Telecommunications (CONFTELE).
7	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.
8	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
9	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