




Daniel Héctor Stolfi Rosso

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Employment History

- 2014 – 2018  **PhD Candidate.** University of Málaga. Networking and Emerging Optimization Group (NEO). Thesis title: Bio-inspired Computing and Smart Mobility.
- 2013 – 2014  **Project Researcher.** University of Málaga. Networking and Emerging Optimization Group (NEO). Project: RoadMe: Fundamentals for Real World Applications of Metaheuristics: The Vehicular Network Case (TIN2011-28194).
- 2010 – 2013  **Project Researcher.** University of Málaga. Research and Applications of Artificial Intelligence Group (IAIA). Projects: SCALE@RN: Person Centred Adaptive and Scalable Learning Contents (TSI-020311-2009-6); PATIO: Techniques for collaborative learning and user modelling applied to multicultural integration (TIC-4273).
- 2005 – 2009  **Project Manager, Consultant and Analyst Programmer.** ctDli: Consultoría Tecnológica de la Información, S.L.
- 1999 – 2000  **Telecommunication Technician.** Aucore, S.L.
- 1993 – 2000  **Vocational Education Teacher.** EET.8235 “Ing. Enrique B. Gomara”.

Education

- 2018  **PhD in Computer Science,** University of Málaga, Spain.
PhD thesis title: *Bio-inspired Computing and Smart Mobility*. With Cum Laude honors
- 2012  **Master’s degree in Software Engineering and Artificial Intelligence,** University of Málaga, Spain.
Thesis title: *Optimization of Road Traffic in Smart Cities*.
- 2010  **M.Sc. Computer Science,** University of Málaga, Spain.
Dissertation title: *CoMVeT - Mentally controlled unmanned vehicles*. With honors
- 2004  **B.Sc. Computing & Information Systems,** University of Málaga, Spain.
Dissertation title: *The school of computer science modelled in virtual reality - The VRML language*. With honors
- 1992  **Communication Electronic Technician,** EET.8235 “Ing. Enrique B. Gomara”, Argentina.

Research Publications

Journal Articles

- 1 **Stolfi, D. H. & Alba, E.** (2018a). Epigenetic algorithms: A New way of building GAs based on epigenetics. *Information Sciences*, 424(Supplement C), 250–272. doi:10.1016/j.ins.2017.10.005
- 2 **Stolfi, D. H. & Alba, E.** (2018b). Generating realistic urban traffic flows with evolutionary techniques. *Engineering Applications of Artificial Intelligence*, 75, 36–47. doi:10.1016/j.engappai.2018.07.009

- 3 **Stolfi, D. H.** & Alba, E. (2018c). Green swarm: greener routes with bio-inspired techniques. *Applied Soft Computing*, 71, 952–963. doi:10.1016/j.asoc.2018.07.032
- 4 **Stolfi, D. H.**, Alba, E., & Yao, X. (2018). Can I park in the city centre? predicting car park occupancy rates in smart cities. *Journal of Urban Technology*, Minor review.
- 5 **Stolfi, D. H.** & Alba, E. (2014b). Red swarm: reducing travel times in smart cities by using bio-inspired algorithms. *Applied Soft Computing*, 24, 181–195. doi:https://doi.org/10.1016/j.asoc.2014.07.014

Conference Proceedings

- 1 Alcaraz, C., Abdo-Sánchez, E., Toutouh, J., Halir, R., Ruiz, M., & **Stolfi, D. H.** (2018, February). Some ingredients to improve gamification in engineering. In *Edulearn18 proceedings* (pp. 7040–7044). 10th International Conference on Education and New Learning Technologies. Palma, Spain: IATED. doi:10.21125/edulearn.2018.1662
- 2 Camero, A., Toutouh, J., **Stolfi, D. H.**, & Alba, E. (2018). Evolutionary deep learning for car park occupancy prediction in smart cities. In *International conference on learning and intelligent optimization* (In press). Springer.
- 3 **Stolfi, D. H.**, Cintrano, C., Chicano, F., & Alba, E. (2018). Natural Evolution Tells Us How to Best Make Goods Delivery: Use Vans. In *Proceedings of the Genetic and Evolutionary Computation Conference Companion* (pp. 308–309). GECCO '18. Kyoto, Japan: ACM. doi:10.1145/3205651.3205764
- 4 Alcaraz, C., Abdo, E., Halir, R., Toutouh, J., Ruiz, M., & **Stolfi, D. H.** (2017). Gamification to Fight Lack of Motivation and Heterogeneity in Engineering. In *Edulearn17 proceedings* (pp. 3662–3668). 9th International Conference on Education and New Learning Technologies. IATED. doi:10.21125/edulearn.2017.1794
- 5 **Stolfi, D. H.** & Alba, E. (2017). Computing new optimized routes for gps navigators using evolutionary algorithms. In *Proceedings of the genetic and evolutionary computation conference* (pp. 1240–1247). GECCO '17. Berlin, Germany: ACM. doi:10.1145/3071178.3071193
- 6 **Stolfi, D. H.**, Armas, R., Alba, E., Aguirre, H., & Tanaka, K. (2016). Fine tuning of traffic in our cities with smart panels: the quito city case study. In *Proceedings of the genetic and evolutionary computation conference 2016* (pp. 1013–1019). GECCO '16. Denver, Colorado, USA: ACM. doi:10.1145/2908812.2908868
- 7 **Stolfi, D. H.** & Alba, E. (2015b). Smart Mobility Policies with Evolutionary Algorithms. In *Proceedings of the 2015 on genetic and evolutionary computation conference* (pp. 1287–1294). GECCO '15. New York, NY, USA: ACM. doi:10.1145/2739480.2754742
- 8 **Stolfi, D. H.** & Alba, E. (2015c). Un Algoritmo Evolutivo para la Reducción de Tiempos de Viaje y Emisiones Utilizando Paneles LED. In *X congreso español sobre metaheurísticas, algoritmos evolutivos y bioinspirados* (pp. 27–34). MAEB 2015. Mérida - Almendralejo.
- 9 **Stolfi, D. H.** & Alba, E. (2014a). Eco-friendly Reduction of Travel Times in European Smart Cities. In *Proceedings of the 2014 conference on genetic and evolutionary computation* (pp. 1207–1214). GECCO '14. New York, NY, USA: ACM. doi:10.1145/2576768.2598317
- 10 **Stolfi, D. H.** & Alba, E. (2013a). Red Swarm: Smart Mobility in Cities With EAs. In *Proceeding of the fifteenth annual conference on genetic and evolutionary computation conference* (pp. 1373–1380). GECCO '13. New York, NY, USA: ACM. doi:10.1145/2463372.2463540

Books and Chapters

- 1 **Stolfi, D. H.** & Alba, E. (2018d). Sustainable Road Traffic Using Evolutionary Algorithms. In *Sustainable transportation and smart logistics* (In press). Elsevier.
- 2 **Stolfi, D. H.**, Alba, E., & Yao, X. (2017). Predicting Car Park Occupancy Rates in Smart Cities. In *Smart cities: second international conference, smart-ct 2017, Málaga, Spain, June 14-16, 2017, proceedings* (pp. 107–117). Cham: Springer International Publishing. doi:10.1007/978-3-319-59513-9_11

- 3 Cintrano, C., **Stolfi, D. H.**, Toutouh, J., Chicano, F., & Alba, E. (2016). CTPATH: A Real World System to Enable Green Transportation by Optimizing Environmentally Friendly Routing Paths. In *Smart cities: first international conference, smart-ct 2016, Málaga, Spain, June 15-17, 2016, proceedings* (pp. 63–75). Cham: Springer International Publishing. doi:10.1007/978-3-319-39595-1_7
- 4 **Stolfi, D. H.** & Alba, E. (2015a). An Evolutionary Algorithm to Generate Real Urban Traffic Flows. In *Advances in artificial intelligence* (Vol. 9422, pp. 332–343). Lecture Notes in Computer Science. Springer International Publishing. doi:10.1007/978-3-319-24598-0_30
- 5 **Stolfi, D. H.** & Alba, E. (2013b). Reducing Gas Emissions in Smart Cities by Using the Red Swarm Architecture. In *Advances in artificial intelligence* (Vol. 8109, pp. 289–299). Lecture Notes in Computer Science. Springer Berlin Heidelberg. doi:10.1007/978-3-642-40643-0_30
- 6 **Stolfi, D. H.** & Gálvez Rojas, S. (2011). *CoMVeT - Control Mental de Vehículos Teledirigidos*.
- 7 **Stolfi, D. H.** & Gálvez Rojas, S. (2010). *Mundos Virtuales 3D con VRML97*.

Projects

- 2018 – 2020 **6city**: Cross-Intelligence for Smart Cities, TIN2017-88213-R.
- 2017 – 2018 **CI-RTI**: Research Thematic Network on Smart Cities, TIN2016-81766-REDT.
- 2015 – 2018 **MoveON**: Holistic Intelligence, and Smart Mobility, TIN2014-57341-R.
- 2015 **maxCT**: Smart Mobility: Wi-Fi, Routes & Pollution, OTRI #8.06/5.47.4356.
- 2012 – 2014 **roadME**: Fundamentals for Real World Applications of Metaheuristics: the Vehicular Network Case, TIN2011-28194.
- 2009 – 2013 **PATIO**: Collaborative Learning and User Modelling Techniques Applied to Multicultural Integration, P08-TIC-4273.
- 2009 – 2011 **SCALE@RN**: Person Centered Adaptive and Scalable Learning Contents., TSI-020311-2009-6.

Stays Abroad

- 2016 **University of Birmingham**: CERCA, Centre of Excellence for Research in Computational Intelligence and Applications, Birmingham, U.K. (3 months)
- 2015 **Shinshu University**: Faculty of Engineering, Nagano, Japan (1 month)

Grants / Fellowships / Awards

- 2014 **FPU**: Spanish research and teaching fellowship (FPU13/00954) from the Spanish Ministry of Education, Culture and Sports.

Teaching

- 2017 – 2018 **Recursos Informáticos Aplicados a la Traducción e Interpretación**: Facultad de Filosofía y Letras, University of Malaga, 33.2 Hs.
- 2016 – 2017 **Programación II**: ETSI Telecomunicación, University of Malaga, 18.6 Hs.
- Informática Aplicada a la Gestión Pública**: Facultad de Comercio y Gestión, University of Malaga, 13.9 Hs.
- 2013 – 2014 **Lenguajes de Programación y Procesadores**: UNED, Malaga, 8 Hs.

Administrative/Organizational Experience

- 2018 **Program Committee:** Genetic and Evolutionary Computation Conference: GECCO 2018, Kyoto, Japan
- 2017 **Program Committee:** Genetic and Evolutionary Computation Conference: GECCO 2017, Berlin, Germany
- Organizing Committee:** International Conference on Smart Cities: SmartCT'17, Malaga, Spain
- Organizing Committee:** Second International Summer School on Search-Based Software Engineering: SS-SBSE 2017, Malaga, Spain
- Organizing Committee:** Fourth Euro-China Conference on Intelligent Data Analysis and Applications: ECC 2017, Malaga, Spain
- 2016 **Program Committee:** Genetic and Evolutionary Computation Conference: GECCO 2016, Denver, Colorado, USA
- Organizing Committee:** International Conference on Smart Cities: SmartCT'16, Malaga, Spain

Skills and Interests

- Languages **Spanish** (native speaker), **English** (C1 proficient user).
- Coding **Java**, **Python**, **C**, **C++**, **R**, **MATLAB**, **L^AT_EX**, **PHP**, **JavaScript**, **Delphi**, **Bash**, **VRML97**.
- Databases **MySQL**, **PostgreSQL**, **ORACLE**, **SQLite**.
- Web Dev **HTML**, **CSS**, **JavaScript**, **Apache Web Server**, **Tomcat Web Server**.
- Others **Combinatorial Optimization**, **Metaheuristics**, **Bio-inspired Algorithms**, **GNU/Linux**, **ARDUINO**, **Microchip Microcontrollers**, **Brain-Computer Interface (BCI)**, **HTCondor (High Throughput Computing)**.
- Misc. **Academic research**, **Teaching**, **Robotics**.
- Hobbies **Sci-Fi books and TV series**, **Photography**, **Simulation video games**.