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Dept. Business and Economics  
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24<sup>th</sup> October 2018

### Academic Affiliations

- 2017-present **Department of Economics and Business. Universitat Pompeu Fabra. Spain**  
Assistant Professor -Tenure Track  
**Barcelona School of Management**  
Academic Coordinator of Operations and Supply Chain Management Specialization  
**Barcelona Graduate School of Economics**  
Affiliated Professor
- 2016-2017 **Department of Economics and Business. Universitat Pompeu Fabra. Spain**  
Visiting Professor.
- 2015-2016 **Department of Computer Science. Universitat Oberta de Catalunya. Spain**  
Postdoc Researcher
- 2015-2015 **Department of Computers and Systems Engineering. Universidad de La Laguna. Spain**  
Postdoc Researcher
- 2013-2014 **Department of Statistics, OR and Computer Science. Universidad de La Laguna. Spain**  
Postdoc Researcher
- 2008-2012 **Department of Statistics, OR and Computer Science. Universidad de La Laguna. Spain**  
Researcher (PhD Student)

### Education

- 2012 – **Ph.D in Computer Science.** Universidad de La Laguna. Santa Cruz de Tenerife. Spain  
2009 – **Research Proficiency.** Universidad de La Laguna. Santa Cruz de Tenerife. Spain  
2007 – **Computer Engineering.** Universidad de La Laguna. Santa Cruz de Tenerife. Spain  
2005 – **Technical Computer Engineering.** Universidad de La Laguna. Santa Cruz de Tenerife. Spain

### Research Indexes

**ResearcherID:** F-1537-2014

**ORCID:** 0000-0002-7619-7407

**Google Scholar:** h-index 9, citations 233 (October 24<sup>th</sup>, 2018)

**Research interests:** Combinatorial Optimization, Metaheuristics, Simulation, Machine Learning, Operations Research, Artificial Intelligence, Logistics and transportation

### Honors and Awards

**Luis Azcárraga Award.** Fundación ENAIRE. Ministerio de Fomento. 2017

*"A multi-start randomized heuristics for real-life crew rostering problems in airlines with work-balancing goals"*

**PhD Award from AEPIA** (Asociación Española para la Inteligencia Artificial) 2014

**PhD Extraordinary Award.** Universidad de La Laguna. 2012

**Special Award End of Computer Science Degree.** Universidad de La Laguna. 2005

### Academic Visits

**University of Hamburg,** Hamburg, Germany. 2018. 1 month

**University of Colorado Boulder,** Boulder, Colorado, USA. 2017. 1 month

**University of Nottingham,** Nottingham, UK. 2014. 1 month

**University of Calabria,** Cosenza, Italy, 2014. 1 week

**University of Edinburgh,** Edinburgh Parallel Computing Center. Edinburgh. 2011. 3 months

## Research Projects

**Ibero-American Intelligent Logistics Network for the Sustainable Management of Transportation in Urban Nuclei.**\_CYTED2014-P514RT0013. 2014-2018

**Network of Excellence in Transportation, Logistics, and Intelligent Production.** Ministry of Economy and Competitiveness. TRA2015-71883-REDT. 2015-2017

**ComputerCOOP: Computer-based decision support for Horizontal Cooperation in Transportation and Logistics.** Spanish Ministry of Economy and Competitiveness. TRA2013- 48180-C3-3-P. 2015

**iTRANS. Development of an Intelligent System for Planning, Eco-efficient Management and Dynamic Transport Optimization.** Ministry of Industry, Tourism and Commerce. TSI- 020100-2011-298. 2012

**TOP - Parallel Optimization Techniques.** Hybridization of evolutionary and hyperheuristic computation. Ministry of Science and Innovation. TIN2011-25448. 2011

**Parallel Algorithms and Languages.**\_Vice-Rector for Research, Technological Development and Innovation. ULL. 180.221.09.04. 2009

**The two-dimensional cutting problem: algorithms and applications.**\_Canarian Agency for Research, Innovation and the Information Society. PI2007/015. 2009

**Multiobjective Metaheuristics and Engineering.** Ministry of Science and Innovation. TIN2008- 06491-C04-02. 2008

**Optimization and Network Environments.** Ministry of Science and Innovation. TIN2005-08818- C04-04. 2005

## Industry Projects

**JobAndTalent & Cabify:** Development of Crew Scheduling for Taxi Drivers. In this project a large number of constraints and minimizing over and under supply of drivers are considered. 2018.

**OptTek Systems, Inc.:** Participation in the optimization of a complex parallel machine capacitated lot-sizing and scheduling problem. 2017.

**Oesia & Inditex:** Participation in the optimization of the picking operations at a warehouse serving online orders. 2016

**INELCAN S.L.:** Development of an Intelligent Planning System, Eco-efficient Management and Dynamic Transport Optimization. Technology Transference Software for Vehicle Route Optimization. 2012.

## Journal Publications

1. Aljoscha Gruler, Javier Panadero, Jesica de Armas, Jose A. Moreno Pérez, Angel A. Juan. Combining variable neighborhood search with simulation for the inventory routing problem with stochastic demands and stock-outs. *Computers & Industrial Engineering*. 123, 278-288. 2018. DOI: <https://doi.org/10.1016/j.cie.2018.06.036>
2. Stephanie Alvarez Fernandez, Danielle Ferone, Angel A. Juan, Daniel G. Silva, Jesica de Armas. A Two-Stage Biased-Randomized Iterated Local Search for the Uncapacitated Single-Allocation p-Hub Median Problem. *Transactions on Emerging Telecommunications Technologies*. 2018. 29(9). Q3. DOI: <https://doi.org/10.1002/ett.3418>
3. Aljoscha Gruler, Javier Panadero, Jesica de Armas, Jose A. Moreno Pérez, Angel A. Juan. A Variable Neighborhood Search Simheuristic for the Multi-Period Inventory Routing Problem with Stochastic Demands. *International Transactions in Operational Research*. 2018. Accepted, to appear. Q2. DOI: <https://doi.org/10.1111/itor.12540>
4. Manuel Chica, Joaquín Bautista, Jesica de Armas. Benefits of robust multiobjective optimization for flexible automotive assembly line balancing. *Flexible Services and Manufacturing Journal*. 2018. Accepted, to appear. Q2. DOI: <https://doi.org/10.1007/s10696-018-9309-y>
5. Jesica de Armas, Albert Ferrer, Angel A. Juan, Eduardo Lalla-Ruiz. Modeling and Solving the Non-Smooth Arc Routing Problem with Realistic Soft Constraints. *Expert Systems with Applications*. 98, 205-220. 2018. Q1. DOI: <https://doi.org/10.1016/j.eswa.2018.01.020>
6. Jesica de Armas, Peter Keenan, Angel A. Juan, Sean McGarraghy. Solving Large-Scale Time Capacitated Arc Routing Problems: from real-time heuristics to metaheuristics. *Annals of Operations Research*. 2018. Q2. DOI: <https://doi.org/10.1007/s10479-018-2777-3>
7. Stephanie Alvarez Fernandez, Angel A. Juan, Jesica de Armas, Daniel Guerreiro e Silva, Daniel Riera Terrén. Metaheuristics in Telecommunication Systems: network design, routing and allocation problems. *IEEE Systems Journal*, 2018. Q1. <https://doi.org/10.1109/JSYST.2017.2788053>

8. Javier Panadero, Jesica de Armas, Xavier Serra, Joan Manuel Marquès. Multi criteria biased randomized method for resource allocation in distributed systems: Application in a volunteer computing system. *Future Generation Computer Systems*. 82, 29-40, 2018. Q1. DOI: <https://doi.org/10.1016/j.future.2017.11.039>
9. Alex Grasas, Angel A. Juan, Javier Faulin, Jesica de Armas, Helena Ramalhinho. Biased Randomization of Heuristics: supporting real-time decision making in transportation, logistics, and production. *Computers & Industrial Engineering*. 110, 216-228, 2017. Q1. DOI: <https://doi.org/10.1016/j.cie.2017.06.019>
10. Laura Calvet, Madeleine Lopeman, Jesica de Armas, Guillermo Franco, Angel A. Juan. Statistical and machine learning approaches for the minimization of trigger errors in parametric earthquake catastrophe bonds. *SORT-Statistics and Operations Research Transactions*, 41 (2), 1-20. 2017. Q3. DOI: <https://doi.org/10.2436/20.8080.02.64>
11. Laura Calvet, Jesica de Armas, David Masip, Angel A. Juan. Learnheuristics: hybridizing metaheuristics with machine learning for optimization problems with dynamic inputs. *Open Mathematics*. 15(1). pp. 261-280. 2017. Q2. DOI: <https://doi.org/10.1515/math-2017-0029>
12. Jesica de Armas, Angel A. Juan, Joan M. Marquès, João Pedro Pedroso. A Simheuristic Algorithm for the Uncapacitated Facility Location Problem with Stochastic Demands. *Journal of the Operational Research Society*. pp.1- 16. 2016. Q3. DOI: <https://doi.org/10.1057/s41274-016-0155-6>
13. Jesica de Armas, Luis Cadarso, Angel A. Juan, Javier Faulin. A multi-start randomized heuristic for real-life crew rostering problems in airlines with work-balancing goals. *Annals of Operations Research*, pp. 1-24. 2016. Q2. DOI: <https://doi.org/10.1007/s10479-016-2260-y>
14. Angel A. Juan, Carlos A. Mendez, Javier Faulin, Jesica de Armas, Scott E. Grasman. Electric Vehicles in Logistics and Transportation: A Survey on Emerging Environmental, Strategic, and Operational Challenges. *Energies*, 9, 86, 2016. Q2. DOI: <https://doi.org/10.3390/en9020086>
15. Christopher Exposito Izquierdo; Eduardo Lalla Ruiz; Jesica de Armas Adrian; Belén Melián Batista; Marcos Moreno Vega. A Heuristic Algorithm based on an Improvement Strategy to Exploit Idle Time Periods for the Stacking Problem. *Computers & Industrial Engineering*. 87, pp. 410 - 424. 2015. Q1. DOI: <https://doi.org/10.1016/j.cie.2015.05.030>
16. Jesica de Armas Adrián; Eduardo Lalla Ruiz; Christopher Expósito Izquierdo; Darío Landa Silva; Belen Melian Batista. A Hybrid GRASP-VNS for Ship Routing and Scheduling Problem with Discretized Time Windows. *Engineering Applications of Artificial Intelligence*. 45, pp. 350-360, 2015. Q1. DOI: <https://doi.org/10.1016/j.engappai.2015.07.013>
17. Jesica de Armas Adrian; Belén Melián Batista. Variable Neighborhood Search for a Dynamic Rich Vehicle Routing Problem with Time Windows. *Computers & Industrial Engineering*. 85, pp. 120 - 131. 2015. Q1. DOI: <https://doi.org/10.1016/j.cie.2015.03.006>
18. Eduardo Lalla Ruiz; Jesica de Armas Adrian; Christopher Exposito Izquierdo; Belen Melian Batista; Marcos Moreno Vega. Multi-Leader Migrating Birds Optimization. *International Journal of Bio-Inspired Computation*. 2017. Q1. DOI: <https://doi.org/10.1504/IJBIC.2017.085890>
19. Jesica de Armas Adrián; Belén Melián Batista; Jose A. Moreno-Pérez; Julio Brito . GVNS for a Real-World Rich Vehicle Routing Problem with Time Windows. *Engineering Applications of Artificial Intelligence*. 42, pp. 45 - 56. 2015. Q1. DOI: <https://doi.org/10.1016/j.engappai.2015.03.009>
20. Jesica de Armas; Belén Melian Batista. Constrained Dynamic Vehicle Routing Problems with Time Windows. *Soft Computing*. 19 - 9, pp. 2481 - 2498. 06/01/2015. Q2. DOI: <https://doi.org/10.1007/s00500-014-1574-4>
21. Jesica de Armas; Miranda, Gara; León, Coromoto. Improving the efficiency of a best-first bottom-up approach for the constrained 2D cutting problem. *European Journal of Operational Research*. 219 - 0, pp. 201 - 213. 2012. Q1. DOI: <https://doi.org/10.1016/j.ejor.2011.11.002>
22. Jesica de Armas, Gara Miranda, Coromoto León, Carlos Segura. Optimisation of a multi-objective two- dimensional strip packing problem based on evolutionary algorithms. *International Journal of Production Research*. 48 - 7, pp. 2011 - 2028. 2009. Q3. DOI: <https://doi.org/10.1080/00207540902729926>
23. Eduardo Lalla Ruiz; Christopher Exposito Izquierdo; Jesica de Armas Adrian; Belen Melian Batista; Marcos Moreno Vega. Migrating Birds Optimization for the Seaside Problems at Maritime Container Terminals. *Journal of Applied Mathematics*. 781907, 27/05/2015. SCOPUS (SJR) impact factor 0.72. DOI: <http://dx.doi.org/10.1155/2015/781907>
24. Jéssica de Armas; León, Coromoto; Miranda, Gara; Segura, Carlos. Remote service to solve the two-dimensional cutting stock problem: an application to the canary islands costume. *International Journal of Web and Grid Services (IJWGS)*. 4 - 3, pp. 342 - 351. InderScience Publisher, 2008. ISSN 1741-1106. Impact factor 0.978, Q3. DOI: [10.1504/IJWGS.2008.021499](https://doi.org/10.1504/IJWGS.2008.021499)

## Conferences Contributions

1. Jesica de Armas; Angel A Juan; Joan Manuel Marques. Solving the deterministic and stochastic uncapacitated facility location problem. MIC 2017: the 12th Metaheuristics international Conference. Barcelona, Spain. 04/07/2017
2. Gabriel Alemany; Alvaro García-Sánchez; Jesica de Armas; Angel A. Juan; Roberto García-Meizoso; Miguel Ortega-Mier. Combining Monte Carlo Simulation with Heuristics to Solve a Rich and Real-life Multi-depot Vehicle Routing Problem. Winter Simulation Conference 2016. Washington, USA. 11/12/2016. ISBN 978-1-5090-4485-6
3. Xavier Serra; Jesica de Armas; Joan Manuel Marques. Simulating and Optimizing Resource Allocation in a Micro-blogging Application. Winter Simulation Conference 2016. Washington, USA. 11/12/2016. ISBN 978-1-5090-4485-6
4. Angel A. Juan; Manuel Chica; Jesica de Armas; David Kelton. Simheuristics: a method of first resort for solving real-life combinatorial optimization problems. OR58 Annual Conference. Portsmouth, UK. 06/09/2016. pp. 147 - 156. ISBN 978-0-903440-60-8
5. Alba Agustín, Alioscha Gruler, Jesica de Armas, Angel A. Juan. Optimizing Airline Crew Scheduling Using Biased Randomization: A Case Study. Conference of the Spanish Association for Artificial Intelligence, 331-340. 2016. ISSN 0302-9743, ISBN 978-3-319-44635-6
6. Alioscha Gruler, Jesica de Armas, Angel A. Juan. Behavioral Factors in City Logistics from an Operations Research Perspective. International Conference on Smart Cities, 32-41. 2016.
7. Laura Calvet, Renatas Kizys, Angel A. Juan, Jesica de Armas. A SimILS-Based Methodology for a Portfolio Optimization Problem with Stochastic Returns Modeling and Simulation in Engineering, Economics and Management, 3-11. 2016.
8. Jesica de Armas, Laura Calvet, Guillermo Franco, Madeleine Lopeman, Angel A. Juan. Minimizing Trigger Error in Parametric Earthquake Catastrophe Bonds via Statistical Approaches. Modeling and Simulation in Engineering, Economics and Management, 167-175. 2016.
9. Jesica De Armas, Pere Tuset, Tengfei Chang, Ferran Adelantado, Thomas Watteyne, et al.. Determinism Through Path Diversity: Why Packet Replication Makes Sense. *International Conference on Intelligent Networking and Collaborative Systems (INCoS)*, Sep 2016, Ostrava, Czech Republic, France.
10. A Multi-Stage Approach Aimed at Optimizing the Transshipment of Containers in a Maritime Container Terminal. Eurocast 2015. Las Palmas, Canarias, Spain. 08/02/2015 - 13/02/2015 Christopher Expósito Izquierdo; Jesica de Armas Adrian; Eduardo Lalla Ruiz; Belén Melián Batista; J.Marcos Moreno Vega.
11. Intermodal Dynamic Vehicle Routing Problem. Eurocast 2015. Las Palmas, Canarias, Spain. 08/02/2015 - 13/02/2015 Jesica de Armas Adrián; Belén Melián Batista; Julio Brito Santana.
12. Búsqueda por Entornos Variables para el Problema de Asignación de Atraques. MAEB 2015: Congreso Español de Metaheurísticas, Algoritmos Evolutivos y Bioinspirados. Mérida, Extremadura, Spain. 04/02/2015 - 06/02/2015. Christopher Expósito Izquierdo; Eduardo Lalla Ruiz; Jesica de Armas Adrian; Belén Melián Batista; J. Marcos Moreno Vega. ISBN 978-84-697-2150-6.
13. Modelado del Transbordo de Contenedores en una Terminal Marítima de Contenedores. MAEB 2015: Congreso Español de Metaheurísticas, Algoritmos Evolutivos y Bioinspirados. Mérida, Extremadura, Spain. 04/02/2015- 06/02/2015. Christopher Expósito Izquierdo; Jesica de Armas Adrian; Eduardo Lalla Ruiz; Belén Melián Batista; J. Marcos Moreno Vega. ISBN 978-84-697-2150-6.
14. Un Problema Real de Planificación de Rutas de Vehículos con Intermodalidad. MAEB 2015: Congreso Español de Metaheurísticas, Algoritmos Evolutivos y Bioinspirados. Mérida, Extremadura, Spain. 04/02/2015 - 06/02/2015. Jesica de Armas Adrian; Eduardo Lalla Ruiz; Christopher Expósito Izquierdo; Belén Melián Batista; Julio Brito Santana. ISBN 978-84-697-2150-6.
15. An Solution GVNS for an Intermodal VRPTW. META 2014: International Conference on Metaheuristics and Nature Inspired Computing Ciudad de celebración: Marrakech, Marruecos. 27/10/2014 - 31/10/2014 Jesica de Armas Adrián; Julio Brito Santana; Belén Melián Batista.
16. Híbrido basado en VNS para la Planificación real de Rutas de Vehículos con Ventanas de tiempo. MAEB 2013: IX Congreso Español de Metaheurísticas, Algoritmos Evolutivos y Bioinspirados. Madrid, Spain. 16/09/2013. Jesica de Armas Adrián; Belén Melián Batista; José Andrés Moreno Pérez. ISBN 978-84-695-8348-7
17. Constrained Dynamic Vehicle Routing Problem with Time Windows. VeRoLog 2013. Southampton, Reino Unido 07/07/2013 - 10/07/2013. University of Southampton. UK. Jesica de Armas Adrián; Belén Melián Batista; José A. Moreno Pérez.
18. Multiobjective Restricted Dynamic Vehicle Routing Problem with time Windows. International Workshop on locational Analysis and Related Problems. Málaga, Andalucía, Spain. 19/06/2013 - 21/06/2013 Jesica de Armas Adrián; Belén Melián Batista; José Andrés Moreno Pérez.
19. Multi-Objective Restricted Dynamic Vehicle Routing Problem with Time Windows. 22nd International Conference on Multiple Criteria Decision Making. Málaga, Andalucía, Spain. 17/06/2013 - 21/06/2013. Universidad de Málaga. Jesica de Armas Adrián; Belén Melián Batista; José A. Moreno Pérez.

20. Restricted Dynamic Heterogeneous Fleet Vehicle Routing Problem with Time Windows. IWANN 2013: International Work Conference on Artificial Neural Networks. Puerto de la Cruz, Canarias, Spain. 12/06/2013 - 14/06/2013. Jesica de Armas Adrián; Belén Melián Batista; José A. Moreno Pérez. 2, pp. 36 - 45. 14/06/2013. ISSN 0302-9743
21. Parallelization of the Multi-objective Container Loading Problem. CEC 2012:IEEE Congress on Evolutionary Computation. Brisbane, Australia. 10/06/2012 - 15/06/2012. Jéscica de Armas Adrián; Yanira González González; Gara Miranda Valladares; Coromoto León Hernández. ISBN 978-1-4673-1508-1
22. Comparing Encoding Schemes for Multi-objective Two-dimensional Guillotine Cutting Problems. 9th ESICUP Meeting. San Cristobal de La Laguna, Canarias, Spain. 21/03/2012 - 23/03/2012. Jéscica de Armas Adrián; Gara Miranda Valladares; Coromoto León Hernández.
23. Parallel Models for the Multi-Objective Container Loading Problem. 9th ESICUP Meeting. San Cristobal de La Laguna, Canarias, Spain. 21/03/2012 - 23/03/2012. Yanira González González; Jéscica de Armas Adrián; Gara Miranda Valladares; Coromoto León Hernández.
24. El problema de carga de contenedores: una aproximación paralela y multi-objetivo. MAEB 2012: VIII Congreso Español sobre Metaheurísticas, Algoritmos Evolutivos y Bioinspirados. 08/02/2012. Albacete, Spain. Armas, Jesica de; González, Yanira; Miranda, Gara; León, Coromoto. ISBN 978-84-615-6931-1
25. Hyperheuristic encoding scheme for multi-objective guillotine cutting problems Nombre del congreso: GECCO 2011: Genetic and Evolutionary Computation Confence.12/07/2011. Dublin, Ireland Armas, Jesica de; Miranda, Gara; León, Coromoto. ISBN 978-1-4503-0556-0
26. A multi-objective approach for the 2d guillotine cutting stock problem. IWANN 2011: International Work Conference on Artificial Neural Networks. 08/06/2011. Torremolinos, Málaga, Spain. Armas, Jesica de; León, Gara Miranda; Coromoto. ISSN 0302-9743, ISBN 978-3-642-21497-4
27. Two encoding schemes for a multi-objective cutting stock problem. CEC 2011:IEEE Congress on Evolutionary Computation . 05/06/2011. New Orleans, LA Armas, Jesica de; Miranda, Gara; León, Coromoto. ISBN 978-1-4244-7833-0
28. Multi-objective Solution for 2D Guillotine Cutting Stock Problem. 8th ESICUP Meeting. Copenhagen, Dinamarca. 19/05/2011- 21/05/2011 Jéscica de Armas Adrián; Gara Miranda Valladares; Coromoto León Hernández.
29. Resolución Evolutiva del problema multiobjetivo 2D Strip Packing: Análisis de las Codificaciones. MAEB 2010: VII Congreso Español sobre Metaheurísticas, Algoritmos Evolutivos y Bioinspirados. 07/09/2010. Valencia, Spain Jéscica de Armas, Coromoto León, Gara Miranda. ISBN 978-84-92812-58-5
30. Hyperheuristic Codification for the Multi-Objective 2D Guillotine Strip Packing Problem. CEC 2010: IEEE Congress on Evolutionary Computation. Barcelona, Spain. 18/07/2010. Jéscica de Armas, Coromoto León, Gara Miranda. ISBN 978-1-4244-6910-9
31. Codifications in Evolutionary Algorithms for the Multi-Objective 2D Guillotine Strip Packing Problem. EURO XXIV: 24th European Conference on Operational Research. 11/07/2010. Lisboa, Portugal. Jéscica de Armas, Coromoto León, Gara Miranda.
32. Fine and Coarse-grained Parallel Algorithms for the 2D Cutting Stock Problem. 18th Euromicro International Conference on Parallel, Distributed and Network-Based Computing. 17/02/2010. Pisa, Italy. Jéscica de Armas, Coromoto León, Gara Miranda. ISBN 978-0-7695-3939-3
33. A parallel evolutionary approach to solve a multi-objective two-dimensional strip packing problem. 6th esicup meeting. Valencia, Spain. 01/01/2009. Armas, Jesica de; León, Coromoto; Miranda, Gara; Segura, Carlos.
34. Remote service to solve the two-dimensional cutting stock. 2nd international conference on complex, intelligent and software intensive systems. Spain. 04/03/2008 Armas, Jesica de; León, Coromoto; Miranda, Gara; Segura, Carlos. ISBN 0-7695-3109-1
35. Interfaz gráfica de usuario para el problema de corte bidimensional. una aplicación al traje típico de las islas canarias. IX congreso internacional de interacción persona-ordenador. Albacete, Spain. 2008. Armas, Jesica de; León, Coromoto; Miranda, Gara; Segura, Carlos. ISBN 978-84-691-3871-7
36. Optimización del problema de corte bidimensional multi-objetivo Nombre del congreso: XIX jornadas de paralelismo. Valencia, Spain. 01/01/2008. Armas, Jesica de; León, Coromoto; Miranda, Gara; Segura, Carlos. ISBN 978-84-8021-676-0
37. Optimization of a two-dimensional cutting problem through parallel cooperation of multi-objective evolutionary algorithms. International workshop on state-of-the-art in scientific and parallel computing. 01/01/2008. Armas, Jesica de; León, Coromoto; Miranda, Gara; Segura, Carlos.
38. Interfaz gráfica para el corte del traje de mago de la Orotava. XVII Congreso Español en Informática Gráfica. Zaragoza, Sapin. 11/09/2007. Armas, J. de; León, C.; Miranda, G.; Segura, C."Thomson". ISBN 978-84-9732-595-0



## Organization of Research Activities

**12th Metaheuristic International Conference (MIC'2017)**. Barcelona, Spain. 2017  
**International Conference on Risk Analysis ICRA 6/RISK 2015**. Barcelona, Spain. 2015  
**Jornadas de Paralelismo 2011**. International Conference. Universidad de La Laguna. 2011  
**Latest Advances in Computer Science 2011**. Seminar. Universidad de La Laguna. 2011  
**Latest Advances in Computer Science 2010**. Seminar. Universidad de La Laguna. 2010  
**Latest Advances in Computer Science 2009**. Seminar. Universidad de La Laguna. 2009  
**Latest Advances in Computer Science 2008**. Seminar. Universidad de La Laguna. 2008

## Advising

**PhD Thesis**. (Industrial Doctorate, Accenture). Machine Learning in Combinatorial Optimization. Román Buil. 01/01/2018-currently.  
**PhD Thesis**. Metaheuristics and Simheuristics for Telecommunication Systems in Smart Cities. Universitat Oberta de Catalunya. Stephanie Álvarez. 22/09/2016-currently.  
**Master Degree Thesis**. Metaheuristic algorithms for solving the Multi-depot Arc Routing Problem. Universitat Oberta de Catalunya-Universitat Rovira Virgili. Patricio Page. 20/06/2017.  
**Degree Thesis**. VRP enriquit aplicat al sector del transport d'hidrocarburs. Universitat Oberta de Catalunya. Gabriel Alemany. 22/01/2016  
**Degree Thesis**. Ambulance routes on patient groups in response to emergency situations. Universidad de La Laguna. Enrique Tejera González. 25/09/2015  
**Degree Thesis**. Simulator, based on heuristics and metaheuristics, for vehicle scheduling problems within a port terminal. Universidad de La Laguna. Bruno Alessio Bibbó. 24/07/2015  
**Degree Thesis**. Optimizing two-dimensional cutting problem using multiobjective metaheuristics. Universidad de Málaga. Ruben López García. 20/12/2009

## Teaching Experience

Quantitative Methods for Business. **Degree in Business-Management**. Universitat Pompeu Fabra. 2016-currently.  
Distributed Systems. **Degree in Computer Engineering**. Universitat Oberta de Catalunya. 2015 - currently.  
Algorithms and Data Structures. **Degree in Computer Engineering**. Universidad de La Laguna. 2014  
Basis of Software Engineering. **Degree in Computer Engineering**. Universidad de La Laguna. 2014  
Basic Computing. **Degree in Computer Engineering**. Universidad de La Laguna. 2011 - 2012.  
Distributed Systems Programming. **Technical Computer Engineering**. Universidad de La Laguna. 2011 - 2012.  
Basic Computing. **Degree in Computer Engineering**. Universidad de La Laguna. 2010 - 2011.  
Design and Analysis of Languages. **Master in Computer Science Applied to the Industry, Software Engineering, and Information Systems**. Universidad de La Laguna. 2010 - 2011.

## Accreditations

**Six-year term research**. AQU: Agència per a la Qualitat of the University System of Catalonia. 2016  
**Associate Professor**. AQU. 2016  
**Assitant Professor**. ANECA: National Agency for the Evaluation of Quality and Accreditation. 2016  
**Private University Professor**. ANECA. 2016  
**Assistant Professor**. ANECA. 2013  
**Assistant Professor**. ACECAU: Canarian Agency for university quality and educational evaluation. 2012

## Programming skills

Main programming languages: **Java, C/C++, Python**  
Optimization software: **CPLEX, Gurobi**  
Statistical computing tools: **R, SPSS**