

Part A. Personal Information

DATE	20/06/2018
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Surname(s)	Luque Polo	
Forename	Gabriel Jesús	
Social Security, Passport, ID number	74836648F	
Sex	Male	
Age	39	
Researcher codes	WoS Researcher ID (*)	
	SCOPUS Author ID(*)	14219283600
	Open Researcher and Contributor ID (ORCID)	A-3082-2011
		0000-0001-7909-1416

(*) At least one of these is mandatory

A.1. Current position

Post/ Professional Category	PhD Assistant Professor	
UNESCO Code	1203.15, 1203.11	
Key Words	Software development, Artificial Intelligence, Optimization	
Name of the University/Institution	University of Málaga	
	Department/Centre	ETSI Informática
	Full Address	Offic. 3.2.39, ETSI Informática, Campus Teatinos, 29071, Málaga
	Email Address	gluque@uma.es
	Phone Number	952137154
Start date	14/12/2010	

A.2. Education (title, institution, date)

Year	University	Degree	Title
2002	University of Málaga	First degree	Computer Science
2006	University of Málaga	PhD	Computer Science

A.3. Indicators of Quality in Scientific Production (See the instructions)

Number of Sexenios:	1 (from 2012 to 2018)
PhD theses running at present:	2
Citations (all):	1832 (Google scholar)
Citations (since 2013):	1028 - 207/year (Google scholar)
H-index:	20 (Google scholar)
JCR articles:	11 (+2 under review)
Articles (all):	76 articles

Part B. Free Summary of CV (Max. of 3.500 characters, including spaces)

SCIENTIFIC PRODUCTION:

- 11 JCR articles (+2 under review)
- 5 books (4 proceedings and 1 authored)
- 13 book chapters
- 5 articles in international journals (non-indexed by JCR)
- 40+ conference articles
- Some long stays in international research centres (INRIA, King's College, University of Leipzig)

MANAGEMENT OF RESEARCH:

- Participation in 12 public projects (one of them as principal researcher).
- Participation in five research contracts.
- Guest editor in two international journals.

- Associate Editor on two journals: "Metaheuristics: Methods and Applications" and "Mathematical Problems in Engineering".
- Regular reviewer of 15 international journals and 20 conferences.
- Organization of nine scientific events.
- Two PhD theses running at present.
- Participation as part of evaluation member of two international theses.
- Getting two competitive grants (FPI and José Castillejo).

ACADEMIC ACTIVITIES:

- 6 tough subjects, creation of slides and multimedia in some cases
- Direction of 13 degree/master theses and 2 practice in companies
- Positive evaluation of teaching duties
- Participation in 8 teaching projects
- Teach some courses in foreign countries (Cuba, Argentina or Mexico)

TEACHING MANAGEMENT:

- 3 different staff positions in the University of Málaga along 10 years
- Erasmus coordinator (Luxembourg, Austria, Germany) from 2009 to present
- Member of the convalidation commission in Audiovisual communication degree
- Coordinator of 3 subjects

Part C. Relevant accomplishments

C.1. Publications

- A.J. Nebro, G. Luque, F. Luna y E. Alba, **DNA Fragment Assembly Using a Grid Based Genetic Algorithm**, Computers and Operations Research, vol 35, nº 9, September 2008, Pages 2776-2790. (ISSN 0305-0548)
- E. Alba, G. Luque y L. Araujo, **Natural Language Tagging with Genetic Algorithms**, Information Processing Letters, vol 100, nº 5, pp. 173-182, 2006. (ISSN 0020-0190)
- E. Alba, G. Luque y F. Luna, **Parallel Metaheuristics for Workforce Planning**, Journal of Mathematical Modelling and Algorithms, 6 (3), pp. 509-528, 2007 (ISSN 1570-1166)
- G. Minetti, G. Luque y E. Alba, **Seeding strategies and recombination operators for solving the DNA fragment assembly problem**, Information Processing Letters, vol. 108, nº 3, pp. 94-100, October 2008. (ISSN 0020-0190)
- G. Luque, E. Alba, **Parallel Genetic Algorithm: Theory and Real World Applications**, Studies in Computational Intelligence, Vol. 367, Springer, 2011, (ISBN 9783642220838)
- F. Chicano, G. Luque y E. Alba, **Autocorrelation measures for the quadratic assignment problem**, Applied Mathematics Letters, Volume 25, Issue 4, April 2012, Pages 698–705 (ISSN 0893-9659)
- E. Alba, G. Luque, S. Nesmachnow, **Parallel metaheuristics: recent advances and new trends**, Intl.Trans. in Operational Research, 20 (1): 1-48, 2013, (ISSN 0969-6016)
- Y. Bravo, G. Luque, E. Alba, **Takeover Time in Evolutionary Dynamic Optimization: From theory to practice**. Applied Mathematics and Computation 250: 94-104 (2015)
- Y. Bravo, G. Luque, E. Alba, **Global memory schemes for dynamic optimization**. Natural Computing 15(2): 319-333 (2016)
- A. Ali, G. Luque, E. Alba, K. E. Melkemi, **An improved PALS algorithm for the DNA fragment assembly problem**. Soft Comput. 21(7): 1709-1720 (2017)

C.2. Research Projects and Grants

Reference: TIN2017-88213-R	76.956 €
Title: 6city: Cross-Intelligence for Smart Cities	
Organizer: Ministerio de Ciencia e Innovación	Year: 2018
Date: 1/1/2015 – 31/12/2017	Role: Researcher
Reference: 015-1-ES0-KA203-015625	112.265 €
Title: Enhancing communication: research to improve communication for people with special needs and development of TIC resources and tools.	
Organizer: EU – Erasmus+	Year: 2016
Date: 1/1/2016 – 30/5/2018	Role: Technician
Reference: TIN2014-57341-R	133.705 €
Title: moveON: Metaheuristics, Holistic Intelligence, and Smart Mobility	
Organizer: Ministerio de Ciencia e Innovación	Year: 2015
Date: 1/1/2015 – 31/12/2017	Role: Principal Researcher

Reference: TIN2011-28194 101.640 €
Title: **roadME: Fundamentos para la Aplicación de Metaheurísticas a Problemas Reales: el Caso de las Redes Vehiculares**
Organizer: Ministerio de Ciencia e Innovación Year: 2011
Date: 1/1/2012 – 31/12/2014 Role: Researcher

Reference: TIN2008-06491-C04-01 150.040 €
Title: **Mstar: Metaheurísticas Multiobjetivo e Ingeniería del Software**
Organizer: Ministerio de Ciencia e Innovación Year: 2008
Date: 1/1/2009 – 30/06/2012 Role: Researcher

Reference: P07-TIC-03044 462.000 €
Title: **DIRICOM Diseño Inteligente de Redes Inalámbricas de Comunicación.**
Organizer: Consejería de Innovación, Ciencia y Empresa, Junta de Andalucía Year: 2007
Date: 19/12/2007 – 31/12/2012 Role: Researcher

Reference: TIN2005-08818-C04-01 102.340 €
Title: **Optimización y Ambientes de Red (OPLINK: UMA).**
Organizer: Ministerio de Educación y Ciencia Year: 2005
Date: 31/12/2005 – 30/12/2008 Role: Researcher

C.3. Contracts

Reference: 8.06/5.47.4997 90.750 €
Title: **FiQare – Quality and Fiware**
Company: EMERGYA
Date: 1/12/2017 - 31/10/2020 Role: Researcher

Reference: 8.06/5.47.4996 54.450 €
Title: **FiQare – Generic Enablers in Fiware**
Company: SECMOTIC
Date: 1/12/2017 - 31/10/2020 Role: Researcher

Reference: 8.06/47.4792 31.460 €
Title: **Energy Sequence**
Company: VATIA
Date: 1/1/2017 - 31/12/2017 Role: Researcher

Reference: G-GI3003/IDII 101.821 €
Title: **Movilidad Inteligente: Wifi, Rutas, Contaminación**
Company: Agencia de Obras Públicas – Junta de Andalucía
Date: 20/1/2014 - 31/10/2015 Role: Researcher

Reference: 8.06/5.47.4142 64.000 €
Title: **Research Consulting**
Company: VSB-Technical Ostrava (Czech Republic)
Date: 1/11/2013 - 31/12/2014 Role: Researcher

Reference: 8.06/5.47.4209 279.000 €
Title: **CTC MASTER: plataforma inteligente para el control de tráfico ferroviario centralizado**
Company: INDRA Software
Date: 1/12/2013 - 31/3/2015 Role: Researcher

C.4. Patents and other IPR

Software Patent (Intellectual register):
Reference: RTA-133-14 Authors: Gabriel Luque and Enrique Alba
Title: UVO: Procedimiento informático basado en evaluaciones parciales para la elección de rutas para vehículos en la ciudad.
Date: 2/4/2014

Software Patent (Intellectual register):

Reference: RTA-593-17

Authors: G. Luque, J. Chicano, E. Postigo, M. Calleja

Title: EC+ Android App

Date: 1/11/2017

Software Patent (Intellectual register):

Reference: RTA-594-17

Authors: G. Luque, J. Chicano, E. Postigo, M. Calleja

Title: EC+ Academic Portal

Date: 1/11/2017

C.5. Scientific event organization

- Jornadas de Ingeniería del Software y Bases de Datos (2004)
- Jornadas sobre Programación y Lenguajes (2004)
- International Conference ERCIM Meetings, Málaga, (2-5 Nov 2004)
- International Conference The 9-th ACM/IEEE International Symposium on Modeling, Analysis and Simulation of Wireless and Mobile Systems (2006).
- Jornadas de Algoritmos Evolutivos y Metaheurísticas (2007)
- Workshop "Parallel Evolutionary Computation" in the Seveth International Conference on Intelligent Systems Design and Applications (2007).
- Workshop "Metaheurísticas Paralelas" in national conference Metaheurísticas, Algoritmos Evolutivos y Bioinspirados (2007 and 2009).
- National Conference Metaheurísticas, Algoritmos Evolutivos y Bioinspirados (2009).
- Workshop "Herramientas Software para la Investigación sobre Metaheurísticas" in the national conference Metaheurísticas, Algoritmos Evolutivos y Bioinspirados (2010, 2012, 2013, 2015, 2016)
- Workshop "Applications of Metaheuristics to large-scale problems" en "International Conference on Large Scale Scientific Computation" (2011, 2013, 2015, 2017, 2018).
- Track "Parallel Evolutionary System" en Genetic and Evolutionary Computation Conference (2013 and 2014).
- International coference SmartCT (2016 and 2017).

C6. University Management

- Member of "Claustro Universitario UMA" from 2008 to 2012.
- Member of "Junta de Centro de la Escuela (Informática)" from 2010 to 2012.
- Erasmus Coordinator from 2009/10 to now.
- Member of the academic committee for convalidation during 2010-2011.
- Member of the quality committee for ETSI Informática from 2016 to now.

C7. Awards

- Best degree thesis during the academic year 2001/2002 (1502 €).
- Special Award for the PhD thesis 2006.
- Best Paper in EvoCop 2007

C8. Other Merits

- Member of the thematic network about SmartCities (TIN2016-81766-REDT)
- Associate Editor of the journal "Metaheuristics: Methods and Applications".
- Associate Editor of "Special Issue on Metaheuristics for Large-Scale Problems" in the International Journal of Metaheuristics
- Regular reviewer from more than 15 journal indexed in JCR: Information Sciences, Applied Softcomputing, Natural Computing, Genetic Programming and Evolvable Machines, Memetic Computing, Journal of Grid Computing, International Transactions in Operational Research, Evolutionary Computation...
- Regular member of the program committee in more than 20 conferences: GECCO, CEC, Evo*, META, SocPar, ISDA, MAEB...