

Part A. PERSONAL INFORMATION		CV date		17/09/2018
First and Family name	Lidia Fuentes Fernández			
Social Security, Passport, ID number	44077613E	Age	51	
Researcher numbers	Researcher ID	M-5580-2014		
	Orcid code	0000-0002-5677-7156		

A.1. Current position

Name of University/Institution	UNIVERSIDAD DE MÁLAGA		
Department	LENGUAJES Y CIENCIAS DE LA COMPUTACIÓN/ETSI INFORMÁTICA		
Address and Country	Campus de Teatinos, s/n, 29071, Málaga (ESPAÑA)		
Phone number	952132810	E-mail	lff@lcc.uma.es
Current position	CATEDRÁTICO DE UNIVERSIDAD (Full Professor)	From	14/06/2011
Espec. cód. UNESCO	120317, 3304, 330499		
Palabras clave	Software Product Lines, Self-adaptive systems, Green computing, IoT systems, Software architecture quality		

A.2. Education

PhD	University	Year
Doctora Ingeniera en Informática	Universidad de Málaga	1998
Licenciada en Informática	Universidad de Málaga	1992
Diplomada en Informática	Universidad de Santiago de Compostela	1989

A.3. JCR articles, h Index, thesis supervised...

- **3 “sexenios de investigación”** until 2012
- **5 “quinquenios docentes”** until 2018
- Supervised thesis: **7 supervised thesis** (one has been finished and has the viva in October), another one is in the 2nd year (**4 with a best-PhD award**). 5 of them in the last 10 years.
- **Total number of citations (last 5 years):** 1023 (Google Scholar) of a total of 3049.
- **H-index: 29** (Google Scholar)
- Total publications: more than 200 international papers
 - **JCR articles: 58**
 - Q1 (18), Q2 (17)
 - Collaboration with international research groups: 34 papers with 15 groups
 - **5 best-paper awards** (ICSR'11, MATES'16, SPLC-Tools'17, ICEA'17, SOMET'18)
- Research projects:
 - As principal investigator: 10 projects (4 European projects) with a total of 1.314.367,68 Euros
 - As participant: 17 projects and contracts
- 5 products registered in the national trademark registry office

Part B. CV SUMMARY (max. 3500 characters, including spaces)

Prof. Lidia Fuentes received her MsC degree and a PhD in Computer Science, from the *Universidad de Málaga*. She has done all her teaching work at the Department *Lenguajes y Ciencias de la Computación* since 1993, being the first female Full Professor of this department. She started her research activity in the group GISUM (Software Engineering Group of the University of Malaga), one of the two most well considered in Andalusia in Software Engineering area. She obtained her first research project as principal investigator in 2004 (AOSD-Europe, VI EU framework program), date when she started leading the group

CAOSD (Development of Software Oriented to Components and Aspects, <http://caosd.lcc.uma.es>). Since then she has led 10 research projects (4 Europeans) in the last 15 years, executed only by members of CAOSD (JM Troya, M. Pinto, M. Amor, me and contracted) and all of them closely linked to Software technologies for future Internet. Her scientific production has been very prolific so far, with more than **two hundred scientific publications** in international forums, highlighting around sixty publications indexed in JCR such as Information and Software Technology, Journal of Systems and Software, Future Generation of Computer Systems, IEEE Internet Computing, IEEE Software, IEEE Transactions on SW Engineering, among others. And 39 papers published in high quality conferences ranked in the CORE ranking (17 are CORE A). These publications are highly cited, with more than three thousand citations to date. Her H-index is 29 (Google Scholar). She has co-authored five papers that have received the best-paper award of prestigious conferences (e.g., SPLC, ICSR, ...), and co-authored around thirty five papers with fifteen international groups. Some co-authors include Awais Rashid (U. Lancaster, UK), Steffen Zschaler (King's College), Ana Moreira (UNL, Portugal), and Siobhán Clarke (TCD, Ireland). She has an important international profile, as a member of program committees of 23 prestigious international conferences (in 42 editions). Examples are SPLC, Modularidad/AOSD, OOPSLA or ICSR, all CORE A. Highlighting my membership in the international community of AOSD/Modularidad collaborating in European projects, program committees, and she was the General Chair of Modularity/AOSD of 2016 that we organized in Malaga. She also has been program chair of international conferences such as SPLC 2018 (industry track), VaMos 2018 and UcaMI. Since 2000 she collaborated with international research groups (15 groups and 35 articles) and she is currently a member of the AOSA management committee and VaMos steering committee. She is currently the most cited female scientific of the Universidad de Malaga, as can be seen in this article (<http://www.malagahoy.es/article/malaga/2247431/una/experta/informatica/la/cientifica/mas/citada/the/uma.html>).

Part C. RELEVANT MERITS

C.1. Publications (last 10 years, 10 max)

1. J. M. Horcas, Mónica Pinto, Lidia Fuentes: Context-Aware Energy-Efficient Applications for Cyber-Physical Systems. Next publication in **Ad Hoc Network (Q1)** 82:15-30, (2019)
2. Daniel-Jesús Muñoz, José A. Montenegro, M. Pinto, L. Fuentes: Energy-Aware Environments for the Development of Green Applications for CPS, next publication in **Future Generation Computer Systems (Q1)** (2019).
3. J. M. Horcas, Mónica Pinto, Lidia Fuentes: An automatic process for weaving functional quality attributes using a software product line approach. **Journal of Systems and Software (Q1)** 112: 78-95 (2016)
4. Gustavo G. Pascual, Roberto E. Lopez-Herrejon (*Johannes Kepler University*), Mónica Pinto, Lidia Fuentes, Alexander Egyed (*Johannes Kepler University*): Applying multiobjective evolutionary algorithms to dynamic software product lines for reconfiguring mobile applications. **Journal of Systems and Software (Q1)** 103: 392-411 (2015)
5. Nadia Gámez, Lidia Fuentes, J.M. Troya: Creating Self-Adapting Mobile Systems with Dynamic Software Product Lines. **IEEE Software** 32(2): 105-112 (2015)
6. GG Pascual, M Pinto, L Fuentes, Self-adaptation of mobile systems driven by the Common Variability Language, **Future Generation Computer Systems (Q1)**, 47:127-144, 2015
7. Nadia Gámez, Lidia Fuentes: Architectural evolution of FamiWare using cardinality-based feature models. **Information & Software Technology (Q1)** 55(3): 563-580 (2013)
8. Mónica Pinto, Lidia Fuentes, Luis Fernández: Deriving detailed design models from an aspect-oriented ADL using MDD. **Journal of Systems and Software (Q1)** 85(3): 525-545 (2012)
9. Mónica Pinto, Lidia Fuentes, J.M. Troya Linero: Specifying aspect-oriented architectures in AO-ADL. **Information & Software Technology (Q1)** 53(11): 1165-1182 (2011)
10. Nadia Gámez, Lidia Fuentes: FamiWare: a family of event-based middleware for ambient intelligence. **Personal and Ubiquitous Computing (Q2)** 15(4): 329-339 (2011)

C.2. Research projects and grants

Name: TASOVA: Network on new Trends on Software Architecture and Variability

Principal Investigator(s): LIDIA FUENTES (10 national research groups)

Program: MINECO **Code:** TIN2017-90644-REDT

Initial Date: 01/07/2018 **Duration:** 24 months **Total funding:** 10.000,00

Name: HADAS: Herramienta de Análisis y Desarrollo de Aplicaciones sostenibles

Principal Investigator(s): L. FUENTES, JM TROYA (sustituido M. PINTO) (7 researches)

Program: MICCINN **Code:** TIN2015-64841-R

Initial Date: 01/01/2016 **Duration:** 36 months **Total funding:** 90.266,00

Name: INTER-TRUST: Interoperable Trust Assurance Infrastructure

Principal Investigator(s): LIDIA FUENTES (7 researchers)

Program: VII PROGRAMA MARCO DE LA UNIÓN EUROPEA **Code:** FP7-317731 **Initial**

Date: 01/11/2012 **Duration:** 30 months **Total funding:** 220.838,40

Name: MAGIC: Líneas de producto software y sistemas Multiagente para la Auto-Gestión de sistemas de la Internet-de-las-Cosas

Principal Investigator(s): LIDIA FUENTES (7 researchers)

Program: Proyectos de Excelencia (Junta de Andalucía) **Code:** TIC-1814

Initial Date: 29/01/2014 **Duration:** 48 months **Total funding:** 163.686,5

Name: MAVI. Modelos, Aspectos, y Variabilidad aplicados a la Auto- Adaptación en la Internet de las cosas

Principal Investigator(s): LIDIA FUENTES (6 researchers)

Program: Plan Nacional. Proyectos de Investigación, Subprograma de Proyectos de Investigación Fundamental no Orientada. conv. 2012 **Code:** TIN2012-34840

Initial Date: 01/01/2013 **Duration:** 36 months **Total funding:** 84.480

Name: AMPLE: Aspect-Oriented, Model-Driven Product Line Engineering

Principal Investigator(s): LIDIA FUENTES (10 researcher)

Program: IV PROGRAMA MARCO DE LA UNIÓN EUROPEA

Code: IST-33710 **Initial Date:** 01/10/2006 **Duration:** 36 months **Total funding:** 196.760

Name: FamWare: Una Familia de Plataformas Dinámicas Orientadas a Aspectos para Inteligencia Ambiental

Principal Investigator(s): LIDIA FUENTES (8 researchers)

Program: Proyectos de Excelencia (Juan de Andalucía) **Code:** P09-TIC-5231

Initial Date: 02/02/2010 **Duration:** 54 months **Total funding:** 240.329

Name: Automatización del Proceso de Desarrollo de Aplicaciones Orientadas a Aspectos usando un Enfoque Dirigido por Modelos

Principal Investigator(s): LIDIA FUENTES (9 researchers)

Program: OTROS PROGRAMAS DEL PLAN NACIONAL I+D **Code:** TIN2008-01942

Initial Date: 01/01/2009 **Duration:** 54 months **Total funding:** 150.040

Name: AOSD-Europe: European Network of Excellence on Aspect-Oriented Software Development

Principal Investigator(s): LIDIA FUENTES (9 researchers)

Program: IV PROGRAMA MARCO DE LA UNIÓN EUROPEA

Code: IST2-004349 **Initial Date:** 01/09/2004 **Duration:** 50 months **Total funding:** 220.095

Name: Component Based And Aspect Oriented Software Development: From Requirements To Implementation

Principal Investigator(s): LIDIA FUENTES (4 researchers)

Program: Programa de Cooperación Internacional (Acciones Integradas)

Code: HP2004-0015 **Initial Date:** 01/01/2005 **Duration:** 24 months **Total funding:** 7.804

C.3. Patents

The following tools are registered in the Intellectual Property registry.

- vEXgine, a engine that weave models in CVL, RTA-00658-2017 (13/03/2018)
- iMuseumA, A management system for a museum based on agents for Android devices (June 2015)
- Famware (No. RTA-51-12), a family of middleware for Android, TinyOS /SunSPOT (2012)
- AO-ADL Tool Suite (No. MA-16D-09), Specification of architectures in AO-ADL and generation of Theme/UML and UML models and code for AOP-JBoss, (2009)
- Pópulo (No. AN-I-513-2009), simulation tool for UML activity diagrams with extensions with aspect orientation that uses semantics actions, (2009)

C.4. Thesis supervision (finished)

- Gustavo G. Pascual, Optimizing Mobile Applications by Exploiting Variability Models at Run-time, waiting for external reviewers' reports, expected dissertation in October 2018.
- J.M. Horcas, WeaFQAs: A Software Product Line Approach for Customizing and Weaving Efficient Functional Quality Attributes, co-advisor M. Pinto, July 2018
- Ayala-Viñas, Inmaculada; Model driven development of agents for ambient intelligence, 25/11/2013 (**BEST PhD Thesis Award**)
- Gámez-Gómez, Nadia Leonor; FAMIWARE: An Autonomic Middleware Family For Ambient Intelligence, 31/01/2012 (**BEST PhD Thesis Award**)
- Sánchez-Barreiro, Pablo; ALMADRABA - Model-Driven Development Of Aspect-Oriented Executable Uml Models; 2009 (**BEST PhD Thesis Award**)
- Amor-Pinilla, Mercedes; MALACA: Una Arquitectura Para El Desarrollo De Agentes Software Basados En Componentes y Aspectos; 2005
- Pinto-Alarcon, Monica; CAMP/DAOP: Modelo y Plataforma Basados En Componentes y Aspectos; 2004 (**BEST PhD Thesis Award**)

C.5. Research stays

- From July 17 to July 28, 2006, with Ana Moreira, Universidade Nova de Lisboa (3 research projects, 2 journals, 4 congresses and 1 book chapter)
- From September 1 to October 2, 2013, with Joyce El Haddad, Paris-Dauphine University (2 articles in congresses, one CORE A)
- From September 5 to October 6, 2015, with Steffen Zschaler, King College, London (I have previously collaborated on a project and 3 articles)

C.6. Institutional responsibilities (last 10 years)

- From February 2011-2016, Coordinator of the Regional Research Program of the Junta de Andalucía (TIN), *Agencia Andaluza del Conocimiento* (formerly DEVA)
- From 2015 to 2019, member of the steering committee of AOSA (Aspect-Oriented Software Association) and <Programming> conference
- From 2014 to 2015, member of the *Comisión Nacional de Evaluación de la Actividad Investigadora* (CNEAI)
- From July 2016, member of the C11 committee for the promotion of professors (*Comité de promoción del profesorado*, ANECA)
- From November 2016, Coordinator of the Master "Ingeniería del Software e Inteligencia Artificial", ETSI Informática, Universidad de Málaga.

C.7. Organization of conferences (last 5 years)

- Co-chair of the VaMos 2018 (International Workshop on Variability Modelling of Software-Intensive Systems) in Madrid (Spain)
- Co-chair of the Industrial Systems and Software Product Lines track at SPLC 2017 conference in Seville (Spain)
- General chair of the Modularity 2016 conference held in Málaga