

CURRICULUM VITAE ABREVIADO (CVA)

IMPORTANT – The Curriculum Vitae cannot exceed 4 pages. Instructions to fill this document are available in the website.

Part A. PERSONAL INFORMATION

First name	Inmaculada		
Family name	Ayala Viñas		
Gender (*)		Birth date (dd/mm/yyyy)	
Social Security, Passport, ID number			
e-mail			
Open Researcher and Contributor ID (ORCID) (*)			

(*) *Mandatory*

A.1. Current position

Position	Associate Professor		
Initial date	01/10/2023		
Institution	Universidad de Málaga		
Department/Center	Departamento de Lenguajes y Ciencias de la Computación		
Country	Spain	Telephone number	
Key words			

A.2. Previous positions (research activity interruptions, indicate total months)

Period	Position/Institution/Country/Interruption cause
2023-actualidad (16 meses)	Associate Professor – Universidad de Málaga (ES)
2022-2023 (14 meses)	Permanent Assistant Professor – Universidad de Málaga (ES)
2021-2022 (15 meses)	Assistant Professor – Universidad de Málaga (ES)
2017-2021 (55 meses)	Post-doctoral researcher – Universidad de Málaga (ES)
2016-2016 (7 meses)	Post-doctoral researcher – Mälardalen University (Sweden)
2013-2015 (25 meses)	Post-doctoral researcher – Universidad de Málaga (ES)
2009-2013 (59 meses)	Phd. Student – Universidad de Málaga (ES)

A.3. Education

PhD, Licensed, Graduate	University/Country	Year
Ingeniería Informática	Universidad de Málaga – Spain	2009
Máster en Ingeniería del Software e Inteligencia Artificial	Universidad de Málaga – Spain	2011
Phd. In Informatics	Universidad de Málaga – Spain	2013

Part B. CV SUMMARY (max. 5000 characters, including spaces)

Inmaculada Ayala is an assistant professor in the Department of Languages and Computing Sciences at the University of Málaga. She previously worked as a post-doctoral research fellow of the Division of Software Engineering of the School of Innovation and Design of Mälardalen Högskola in Västerås. She obtained her PhD degree in Computer Science from the University of Malaga in 2013. Her research interests include Green Software Engineering, Internet of Things, self-adapting systems and Ambient Intelligence between others. Her most significant publications can be found in international journals such as Knowledge-Based System, Journal of Systems and Software and Information and Software Technology. She has participated and is currently involved in several EU, national and regional research projects.

Part C. RELEVANT MERITS (sorted by typology)

C.1. Publications (see instructions)

1. Ayala, I., Amor, M., & Fuentes, L. (2019). An energy efficiency study of web-based communication in android phones. *Scientific Programming*, 2019(1), 8235458.
2. Ayala, I., Amor, M., Horcas, J. M., & Fuentes, L. (2019). A goal-driven software product line approach for evolving multi-agent systems in the Internet of Things. *Knowledge-Based Systems*, 184, 104883.
3. Cañete, A., Horcas, J. M., Ayala, I., & Fuentes, L. (2020). Energy efficient adaptation engines for android applications. *Information and Software Technology*, 118, 106220.
4. Ballesteros, J., Ayala, I., Caro-Romero, J. R., Amor, M., & Fuentes, L. (2020). Evolving dynamic self-adaptation policies of mhealth systems for long-term monitoring. *Journal of Biomedical Informatics*, 108, 103494.
5. Ayala, I., Papadopoulos, A. V., Amor, M., & Fuentes, L. (2021). Prodspl: Proactive self-adaptation based on dynamic software product lines. *Journal of Systems and Software*, 175, 110909.
6. Ayala, I., Amor, M., & Fuentes, L. (2015). The Sol agent platform: Enabling group communication and interoperability of self-configuring agents in the Internet of Things. *Journal of Ambient Intelligence and Smart Environments*, 7(2), 243-269.
7. Ayala, I., Amor, M., Pinto, M., Fuentes, L., & Gámez, N. (2014). imuseuma: An agent-based context-aware intelligent museum system. *Sensors*, 14(11), 21213-21246.
8. Ayala, I., Amor, M., Fuentes, L., & Troya, J. M. (2015). A software product line process to develop agents for the iot. *Sensors*, 15(7), 15640-15660.
9. Ayala, I., Amor, M., & Fuentes, L. (2013). Self-configuring agents for ambient assisted living applications. *Personal and ubiquitous computing*, 17, 1159-1169.
10. Ayala, I., Amor, M., & Fuentes, L. (2014). A model driven engineering process of platform neutral agents for ambient intelligence devices. *Autonomous agents and multi-agent systems*, 28, 214-255.

C.2. Congress, indicating the modality of their participation (invited conference, oral presentation, poster)

1. Ayala, I., Amor Pinilla, M., & Fuentes, L. (2013). Enhancing Agent Metamodels with Self-management for Aml Environments. In *Progress in Artificial Intelligence: 16th Portuguese Conference on Artificial Intelligence, EPIA 2013, Angra do Heroísmo, Azores, Portugal, September 9-12, 2013. Proceedings 16* (pp. 420-431). Springer Berlin Heidelberg. **Oral presentation**
2. Ayala, I., Amor, M., Horcas, J. M., & Fuentes, L. (2018). Model driven evolution of an agent-based home energy management system. In *New Trends in Intelligent Software Methodologies, Tools and Techniques* (pp. 17-30). IOS Press. **Oral presentation**
3. Ayala, I., Pinilla, M. A., & Fuentes, L. (2012). Exploiting dynamic weaving for self-managed agents in the iot. In *Multiagent System Technologies: 10th German Conference, MATES 2012, Trier, Germany, October 10-12, 2012. Proceedings 10* (pp. 5-14). Springer Berlin Heidelberg. **Oral presentation**
4. Ayala, I., Amor, M., & Fuentes, L. (2012, July). Self-StarMAS: A multi-agent system for the self-management of AAL applications. In *2012 Sixth International Conference on Innovative Mobile and Internet Services in Ubiquitous Computing* (pp. 901-906). IEEE. **Oral presentation**
5. Ayala, I., Amor, M., & Fuentes, L. (2012). An agent platform for self-configuring agents in the internet of things. *Infrastructures and Tools for Multiagent Systems*, 65. **Oral presentation**
6. Amor, M., Ayala, I., & Fuentes, L. (2010). A4vanet: Context-aware jade-leap agents for vanets. In *Advances in Practical Applications of Agents and Multiagent Systems: 8th International Conference on Practical Applications of Agents and Multiagent Systems (PAAMS 2010)* (pp. 279-284). Springer Berlin Heidelberg. **Oral presentation**
7. Ayala, I., Mandow, L., Amor, M., & Fuentes, L. (2012). An evaluation of multiobjective urban tourist route planning with mobile devices. In *Ubiquitous Computing and Ambient*

- Intelligence: 6th International Conference, UCAMI 2012, Vitoria-Gasteiz, Spain, December 3-5, 2012. Proceedings 6 (pp. 387-394). Springer Berlin Heidelberg. **Oral presentation**
8. Ayala, I., Pinilla, M. A., & Fuentes, L. (2011, October). Modeling context-awareness in agents for ambient intelligence: an aspect-oriented approach. In Portuguese Conference on Artificial Intelligence (pp. 29-43). Berlin, Heidelberg: Springer Berlin Heidelberg. **Oral presentation**
 9. Ayala, I., Amor, M., & Fuentes, L. (2010, May). Towards the automatic derivation of Malaca agents using MDE. In International Workshop on Agent-Oriented Software Engineering (pp. 128-147). Berlin, Heidelberg: Springer Berlin Heidelberg. **Oral presentation**
 10. Ayala, I., Amor, M., & Fuentes, L. (2010). A model driven development of platform-neutral agents. In *Multiagent System Technologies: 8th German Conference, MATES 2010, Leipzig, Germany, September 27-29, 2010. Proceedings 8* (pp. 3-14). Springer Berlin Heidelberg. **Oral presentation**

C.3. Research projects, indicating your personal contribution. In the case of young researchers, indicate lines of research for which they have been responsible.

C.4. Contracts, technological or transfer merits, Include patents and other industrial or intellectual property activities (contracts, licenses, agreements, etc.) in which you have collaborated. Indicate: a) the order of signature of authors; b) reference; c) title; d) priority countries; e) date; f) Entity and companies that exploit the patent or similar information, if any.