

<b>Part A. PERSONAL INFORMATION</b>		<b>CV date</b>	16/09/2018
First and Family name	Elidia Beatriz Blázquez Parra		
Social Security, Passport, ID number	26028970P	Age	44
Researcher numbers	Researcher ID		
	Orcid code	0000-0002-7329-7277	

**A.1. Current position**

Name of University/Institution	Universidad de Málaga		
Department	Expresión Gráfica, Diseño y Proyectos		
Address and Country	c/ Doctor Ortiz Ramos s/n, 29071, Málaga, Spain		
Phone number	951952282	E-mail	ebeatriz@uma.es
Current position	Associate Profesor	From	2008
Espec. cód. UNESCO	220990 – Digital Analysis. Images		
Palabras clave	Analysis and image processing, Geographic Information Systems, Pattern recognition, Industrial Design		

**A.2. Education**

PhD	University	Year
Bachelor's Degree in Topography Technical Engineering	Universidad de Jaén	1997
Bachelor's Degree in Geodesy and Cartography Engineering	Universidad de Jaén	1998
PhD in Geodesy and Cartography Engineering	Universidad de Jaén	2003
Bachelor's Degree in Fine Arts (BFA)	Universidad de Málaga	2009

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

JCR articles: 10 (5 of them in the first quartile Q1). Received citations: 99 (Google Scholar), 92 (ResearchGate). Average citations/year during the last 5 years excluding the current year (2013-2017): 93 (Google Scholar)

h Index: 2 (Google Scholar), 4 (ResearchGate)

Supervised PhD theses: 3

Successful research evaluations (sexenios de investigación): 1 (2003-2011)

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

My last research activities focus on digital image processing and geometric curve recognition on the engineering field. I'm member of the Graphical Engineering Research Group and our most relevant publications are related to this field have been published in the international journals with the highest impact (Q1).

Geometric adjustment is present in various fields of science, engineering and astronomy. Within circle, elliptical and parabolic forms are widely used in the digital analysis of images and pattern recognition. My contribution as a researcher is the study of the state of the art in the different fields, mainly industrial use of geometric shapes. I was working to obtain 3D images with the scanner and calibration of cameras through calibration patterns and experimental results.

My research interests are also on Geodesy, GPS, GIS and Engineering Education.

## Part C. RELEVANT MERITS

### C.1. Publications (including books)

1. López-Rubio, E., Thurnhofer-Hemsi, Blázquez-Parra, E.B., de Cózar-Macías, Ó.D., Ladrón. 2018. A fast robust geometric fitting method for parabolic curves. *Pattern Recognition*, (84), 301-316.
2. López-Rubio, E., Thurnhofer-Hemsi, K., de Cózar-Macías, Ó.D., Blázquez-Parra, E.B., Muñoz-Pérez, J., Ladrón de Guevara-López, I. 2017. Robust Fitting of Ellipsoids by Separating Interior and Exterior Points during Optimization. *Journal of Mathematical Imaging and Vision*, (58), 189-210.
3. Ayala-Álvarez, Francisco Javier; Blázquez-Parra, Elidia Beatriz; Montes-Tubio, Francisco De Paula. 2017. Improving graphic expression training with 3D models. *Journal of Visualization*. (20), 889-904.
4. Ayala-Álvarez, Francisco Javier; Blázquez-Parra, Elidia Beatriz; Montes-Tubio, Francisco De Paula. 2017. Incorporation of 3D ICT elements into class: Augmented Reality in Graphic Expression on Engineering. *Computer Applications in Engineering Education*. (25), 542-549.
5. Ayala-Álvarez, Francisco Javier; Blázquez-Parra, Elidia Beatriz; Montes-Tubio, Francisco De Paula. 2017. Presentation of 3D content: from the classroom to the company. Usability and influence in the space capacity. *Dyna: Ingeniería e Industria*, (92), 137-137.
6. Ayala-Álvarez, Francisco Javier; Blázquez-Parra, Elidia Beatriz; Montes-Tubio, Francisco De Paula. 2015. Assessment of 3D Models Used in Contours Studies. *Universal Journal of Educational Research*, (3) 877-890.
7. Muñoz-Pérez, J., de Cózar-Macías, O.D., Blázquez-Parra, E.B., Ladrón De Guevara-López, I. 2014. Multicriteria robust fitting of elliptical primitives. *Journal of Mathematical Imaging and Vision*, (49), 492-509.
8. Castillo-Rueda, Francisca José; et al. 2012. Office furniture design for Wheelchair user. *Journal of Civil Engineering and Architecture*. 6-11, pp.1482-1491.
9. Ladrón De Guevara, I., Muñoz, J., de Cózar, O.D., Blázquez, E.B. 2011. Robust fitting of circle arcs. *Journal of Mathematical Imaging and Vision*, (40), 147-161.
10. Ruiz-Lendinez, Juan Jose; Ariza-López, Francisco Javier; Ureña- Camara, Manuel Antonio; Blázquez-Parra, Elidia Beatriz. 2010. DIGITAL MAP CONFLATION: A REVIEW OF THE PROCESS AND A PROPOSAL FOR CLASSIFICATION. *International Journal of Geographical Information Science*. (25), 1439- 1466.

### C.2. Research projects and grants

1. TIN2014-53465-R, Videovigilancia mediante búsqueda activa de sucesos anómalos. Ministerio de Economía e Innovación. Programa Estatal de I+D+i orientada a los Retos de la Sociedad. Ezequiel López Rubio (Universidad de Málaga). 01/01/2015-31/12/2018. 123.299 €.
2. P12-TIC-657, Sistemas autoorganizados y estimadores robustos para videovigilancia. Junta de Andalucía. Incentivos a proyectos de investigación de excelencia. Ezequiel López Rubio (Universidad de Málaga). 29/01/2014-16/08/2019. 123.904 €.
3. P10-TIC-6213, Desarrollo de Redes Neuronales Autoorganizativas para Tecnologías de la Información. Junta de Andalucía. Incentivos a proyectos de investigación de excelencia. José Muñoz Pérez (Universidad de Málaga). 11/03/2013-10/03/2017. 51.700 €.
4. P06-TIC-01615, Sistemas de teledetección inteligentes. Junta de Andalucía. Incentivos a proyectos de investigación de excelencia. José Muñoz Pérez. (Universidad de Málaga). 01/01/2007-31/12/2009. 190.536,30 €. Investigador.

### **C.3. Contracts**

1. Research works in the SURVEIRON (Advanced surveillance system for the protection of urban soft targets and urban critical infrastructures) project, a desarrollar en el marco del programa HORIZONTE 2020. Trujillo Aguilera, Francisco David. 2016-2017. 70000.00 EUR.
2. Research works in the "DRONES4CIP. Drones for Critical Infrastructure Protection" pruject, Feder Innterconecta. Trujillo Aguilera, Francisco David. 2016-2018. 25000.00 EUR.
3. Scientific and technical advice on cartographic engineering issues. Marín Granados, Manuel Damián. 2015-2016. 7200.00 EUR

### **C.4. Patents**

1. Martinez-bedoya, Ubalio; Carmen Ladrón de Guevara Muñoz; Óscar David De Cózar Macías; Elidia Beatriz Blázquez Parra; Isidro Ladrón De Guevara Lopez. P201500593. Fecha de solicitud 03/08/2015. ,Mecanismo de traslación y giro de 360º de paneles y tabiques divisorios. Publicada como ES 2569280 B2.
2. Sánchez-martos, Antonio Jesus; Óscar David De Cózar Macías; Carmen Ladrón De Guevara Muñoz; Elidia Beatriz Blázquez Parra; Isidro Ladrón De Guevara-Lopez. 201490010. Pluviometro 23/07/2014.
3. Salvador Merino Córdoba; Javier Martinez Del Castillo; Isidro Ladrón De Guevara Lopez; Elidia Beatriz Blázquez Parra; Francisca José Castillo Rueda. U201330626. Dispositivo electrónico para guiado de personas en el Interior de un edificio 04/09/2013.

### **C.5. Editorial board membership**

1. Editorial board member of I+Diseño magazine (ISSN 1889-433X). International Journal of Research, Innovation and Development in Design.

### **C.8. Institutional responsibilities**

1. Vice-Deputy of the Polytechnic School of the University of Málaga (2016)
2. Vice-Deputy of the Industrial Engineering School of the Universidad de Málaga. (2017- )
3. Member of the governing board (*Junta de Escuela*) of the Industrial Engineering School of the Universidad de Málaga. (2016 - )