

Part A. Personal Information

DATE	December 2018
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Surname(s)	Martín Fernández	
Forename	Francisco de Sales	
Social Security, Passport, ID number	25069640P	
Sex	Male	
Age	54	
Researcher codes	WoS Researcher ID (*)	
	SCOPUS Author ID(*)	
	Open Researcher and Contributor ID (ORCID)	0000-0002-2500-955X

(*) At least one of these is mandatory

A.1. Current position

Post/ Professional Category	Associate Professor	
UNESCO Code	3310.05. 3312.08, 3316.07, 3315.09, 3303.24, 3312.12	
Key Words	Production, Additive Manufacturing, Plastic Deformation, Dimensional Metrology, Corrosion.	
Name of the University/Institution	University of Malaga	
	Department/Centre	Industrial Engineering School
	Full Address	Dr. Ortiz Ramos, s/n
	Email Address	fdmartin@uma.es
	Phone Number	647646930
Start date	February 1996	

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

Year	University	Degree	Title
1991	Málaga	First degree	Technical Engineering
2005	Málaga	Masters (if appropriate)	Industrial Engineering
2009	Málaga	PhD	Engineering

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

Recognition of one section of research by the National Commission for the Evaluation of Research Activities (CNEAI). Recognition of an Autonomic section by the Andalusian Commission for the Evaluation Autonomous Complements (UCUA). PhD addressed: 1 (with International Mention).
International appointments: 35

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

Associate Professor at the School of Industrial Engineering of Malaga University. PhD in Engineering from the University of Malaga since 2009.
Academic Secretary of the Official Master Degree in Manufacturing Engineering at the University of Malaga. Responsible for Administration and Documentation of the Metrology Center of University of Malaga.
Principal Researcher of the PAI TEP-969: Advanced Manufacturing Engineering. Principal investigation lines: Processes of Additive Manufacturing; Plastic Materials behaviour; Metrology. Characterization of surfaces; Corrosion, Mechanical behaviour of materials; Educational Innovation in Engineering.
Member of 2 PhD Tribunals. Member of the Manufacturing Engineering Society (SIF) (nº 70).

Member of International Journal Review. Publications: Author/co-author of more than 25 papers at national and international conferences, 40 articles in national and international journals (3 in Tercil 1, 3 in Tercil 2) and 13 book chapters.

C. Relevant accomplishments

C.1. Publications

- C. Bermudo, L. Sevilla, F. Martín and F.J. Trujillo, Hardening effect analysis by modular upper bound and finite element methods in indentation of aluminium, steel, titanium and superalloys, *Materials*, 10(556) (2017) 1-17 doi: 10.3390/ma10050556, **IF: 2.654** (2016).
- F.J. Trujillo, L. Sevilla, F. Martín and C. Bermudo, Analysis of the chip geometry in dry machining of aeronautical aluminium alloys, *Applied Sciences*, 7(132) (2017) 1-13 doi: 10.3390/app7020132, **IF: 1.679** (2016)
- F.J. Trujillo, M.J. Martín, F. Martín and L. Sevilla, Design, development and implementation of self-assessment tools in the subject of manufacturing engineering in engineering degrees of the university of Málaga, *Materials Science Forum*, Vol. 853 (2016) 24-29 doi: 10.4028/www.scientific.net/MSF.853.24
- A. Camacho, M. Veganzones, J. Claver, F. Martín, L. Sevilla and M.A. Sebastián, Determination of actual friction factors in metal forming under heavy loaded regimes combining experiments and numerical analysis, *Materials*, Vol. 9 n°9 751 doi: 10.3390/ma9090751, **IF: 2.654** (2016)
- C. Bermudo, L. Sevilla, F. Martín and F.J. Trujillo, Study of the tool geometry influence in indentation for the analysis and validation of the new modular upper bound technique, *Applied Sciences*, Vol 6 n°7 (2016) 1-16 doi: 10.3390/app6070203, **IF: 1.679** (2016)
- L. Sevilla, M.J. Martín, F. Martín, C. Bermudo and F.J. Trujillo, Thesaurus and graphipedia tools development at the manufacturing engineering subjects of the university of Málaga, *Materials Science Forum*, Vol. 853 (2016) 85-90 doi: 10.4028/www.scientific.net/MSF.853.85
- C. Bermudo, F. Martín, M.J. Martín and L. Sevilla, Experimental Validation of the New Modular Application of the Upper Bound Theorem in Indentation, *PLoS ONE* 10(3) (2015) e0122790. doi: 10.1371/journal.pone.0122790, **IF: 2.711** (2014)
- C. Bermudo, F. Martín, L. Sevilla, Validación experimental del Modelo Modular en la Aplicación del Teorema del Límite Superior a Procesos de indentación, *Anales de Ingeniería Mecánica* 19, pp. 103, (2014)
- C. Bermudo, F. Martín, L. Sevilla, Optimización del Modelo Modular en Procesos de Indentación mediante el Teorema del Límite Superior, *Anales de Ingeniería Mecánica* 19 pp. 97, (2014)
- F. Martín, L. Sevilla, M.A. Sebastián, A.M. Camacho, An Upper Bound Approach of Ring Compression Test Solutions, *Materials Science Forum*, Vol 759 (2014) 1-9 DOI: 10.4028/www.scientific.net/MSF.759.1
- F. Martín, A.M. Camacho, R. Domingo and L. Sevilla, Modular Procedure to Improve the Application of the Upper-Bound Theorem in Forging, ,” *Materials and Manufacturing Processes*, 28 (2013) 282-286, DOI: 10.1080/10426914.2012.718478, **IF: 1.058** (2011)
- C. Bermudo, F. Martín, L. Sevilla, Friction influence on the implementation of the Upper Bound Theorem in Indentation Process, *Annals of DAAAM for 2012 & Proceedings of the 23rd International DAAAM Symposium*, 23 (1) (2012) 209-214, ISSN: 2304-1382
- F. Martín, L. Sevilla, A. Camacho, A. Sanz, Adaptative model to apply the Upper-Bound Theorem in plain strain forging, *Applied Mechanics and Materials* 217-219 (2012) 2113-2116, DOI: 10.4028/www.scientific.net/AMM.217-219.2113
- L. Sevilla, M.J. Martín, F. Martín, F.J. Trujillo, C. Bermudo. Analysis of the integrated implementation of the Manufacturing Engineering subject in Engineering Degrees at the Malaga University. *Materials Science Forum*. 759, pp. 1 - 9. 2013. <<http://www.scientific.net/MSF.759.1>>.
- F. Martín, L. Sevilla, A.M. Camacho, M.A. Sebastián. Upper Bound Solutions of Ring Compression Test. *Procedia Engineering*. 63, pp. 413 - 420. 2013. <<http://www.sciencedirect.com/science/article/pii/S1877705813014240>>. MESIC 5, 2013. ISBN 978-84-1568863-1

- C. Bermudo, F. Martín, L. Sevilla. Analysis and Selection of the Modular Block Distribution in Indentation Process by the Upper Bound Theorem. *Procedia Engineering*. 63, pp. 388 - 396. 2013. <<http://www.sciencedirect.com/science/article/pii/S1877705813014239>>.
- F. Martín, C. Bermudo, L. Sevilla. Analytical approach to the indentation process. Application of the Upper Bound Element Technique. *Materials Science Forum*, 625. 713, pp. 13 - 18. 2012. <<http://www.scientific.net/MSF.713.13>>.
- C. Bermudo, F. Martín, L. Sevilla. Application of the Upper Bound Element Technique with Triangular Rigid Blocks in Indentation. 2012. AMERICAN INSTITUTE OF PHYSICS, CONFERENCE PROCEEDINGS. 1431 - 74, pp. 74 - 81. 2012. <<http://dx.doi.org/10.1063/1.4707552>>.
- C. Bermudo, F. Martín, L. Sevilla. Friction Influence on the Implementation of the Upper Bound Theorem in Indentation Process. *Annals of DAAAM for 2012 & Proceedings of the 23rd International DAAAM Symposium*. 23 - 1, pp. 0209 - 0214. 2012. <http://file:///D:/Resources/Menu%202012%20Order/CONFERENCE%20PAPERS/0209_Bermudo%20Gamboa%20at%20al.pdf>.
- C. Bermudo, F. Martín, L. Sevilla. Influencia del Rozamiento en la Aplicación del Teorema del Límite Superior en Procesos de Indentación. *Anales de ingeniería mecánica, revista de la asociación española de ingeniería mecánica*. 18 - 1, pp. 98 - 98. 2012. <<http://www.xixcnim.uji.es/CDActas/Documentos/XIX%20CNIM-Resumenes.pdf>>.
- L. Sevilla, M.J. Martín, F. Martín. Integration of Virtual Manufacturing Laboratory of the University of Malaga. *Materials Science Forum*. 692, pp. 65 - 73. 2011.
- L. Sevilla, M.J. Martín, F. Martín, M.J. Cano. Implantation of virtual practices about materials processing in the manufacturing engineering department of the University of Málaga. *Materials Science forum*. 625, pp. 51 - 59. 2009. <<http://www.scientific.net/msf.625.51>>.
- F. Martín, L. Sevilla, M.A. Sebastián. Implementation of technological and geometrical parameters in forging processes by means of the Upper Bound Element Technique. *AIP conference proceedings*. 118 -1, pp. 455 - 463. 2009.
- M.J. Cano, M.J. Martín, F. Martín, L. Sevilla. Empleo de virtualizaciones de prácticas como apoyo en las titulaciones técnicas. *Ciencia-Tecnología. Sociedade na inovação das ciencias*. pp. 347 - 349. 2008.
- L. Sevilla, F. Martín, M.A. Sebastián. Estudio comparativo sobre los criterios de rechazo de errores atípicos. *Anales de Ingeniería Mecánica*. pp. 2663 - 2668. 2004.

C.2. Research Projects and Grants

Research Project: Desarrollo colaborativo de patrones de software y estudios de trazabilidad e intercomparación en la caracterización metrológica de superficies. Plan Nacional de I+D+I MINECO proyectos I+D Excelencia 2016 DPI 2016-78476-P Ministerio de Economía y Competitividad. Spain.

Project Title: Coordinación, desarrollo y análisis de la implantación de prácticas virtuales en el Área de Ingeniería de los Procesos de Fabricación de la Universidad de Málaga.

Entidad financiadora: Universidad de Málaga, PIE07-098

Entidades participantes: Vicerrectorado de Profesorado, Formación y Coordinación

Duración, desde: 2007 hasta: 2008

Investigador responsable: Lorenzo Sevilla Hurtado

Project Title: Elaboración y empleo de herramientas normativas como vehículo de innovación docente en asignaturas técnicas de la UMA.

Entidad financiadora: Universidad de Málaga, PIE08-091

Entidades participantes: Vicerrectorado de Profesorado, Formación y Coordinación

Duración, desde: 2008 hasta: 2010

Investigador responsable: Lorenzo Sevilla Hurtado

Project Title: Diseño y cálculo estructural: Software educativo interactivo.

Entidad financiadora: Universidad de Málaga, PIE10-096

Entidades participantes: Vicerrectorado de Profesorado, Formación y Coordinación

Duración, desde: 2011 hasta: 2012

Investigador responsable: Felipe García Sánchez

Project Title: Estrategias de potenciación del uso de herramientas TIC mediante Campus Virtual en las asignaturas de Ingeniería de Fabricación de los Grados de la UMA y Andalucía Tech.

Entidad financiadora: Universidad de Málaga, PIE13-025

Entidades participantes: Vicerrectorado de Profesorado, Formación y Coordinación

Duración, desde: 2013 hasta: 2015

Investigador responsable: Lorenzo Sevilla Hurtado

C.3. Contracts

Contract Title: High accuracy splits DC current sensor 200A (X-12036-001)

Empresa/Administración PREMO S.L.

Entidades participantes Departamento de Ingeniería Civil, de Materiales y Fabricación y Departamento de Tecnología Electrónica. Universidad de Málaga

Duración, desde: 03/12/2012 hasta: 31/12/2013

Investigador responsable: Francisco Sánchez Pacheco

Número de investigadores participantes: 5

C.4. Patents and other IPR

C.5, C.6, C.7... Other

Local Scientific Committee of the 6th Manufacturing Engineering Society International Conference (MESIC 2015) Society of Manufacturing Engineering-CIM Foundation-Polytechnic University of Catalonia