

CURRICULUM VITAE

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Part A. PERSONAL INFORMATION

CV date	17/09/2019
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First and Family name	Óscar Ruano Ramos		
Researcher codes	WoS Researcher ID (*)		
	SCOPUS Author ID(*)	36777786800	
	Open Researcher and Contributor ID (ORCID) **	0000-0001-8275-1745	

(*) At least one of these is mandatory

(**) Mandatory

A.1. Current position

Name of University/Institution	Universidad Antonio Nebrija		
Department	ARIES Research Center		
Address and Country	Calle Pirineos, 55, 28040 Madrid Spain		
Phone number	636080313	E-mail	oruano@nebrija.es
Current position	Assistant Professor	From	03/09/2019
Key words	Fault Tolerant Systems , Reliability		

A.2. Education

PhD	University	Year
Computer Engineering	Nebrija	2011

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

One period of 6 years on research work (sexenios) recognized by the Ministry of Education and Science (2014).

Total citations: 139.

Q1 Publications: 3.

H index: 6.

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

Holds a M.Sc. degree (2005) and a Ph.D. degree (2011) in Computer Engineering from Universidad Antonio de Nebrija. He has served as a lecturer and researcher in several Spanish universities as Universidad Francisco de Vitoria and Universidad Nebrija where he currently carries out his activity as professor and researcher. He has developed his activity in the Space field, with different research projects on fault tolerance optimization against radiation effects in microelectronic circuits. He is the author of several technical publications, both in journals and international conferences as well as a series of patents. Also, he has worked with different multinational companies in the IT consultancy field, as Accenture. His areas of interest include Computer Architecture, Digital Design, Fault-tolerance and Reliability.

Part C. RELEVANT MERITS

C.1. Publications (including books)

Authors: P. Reviriego, O. Ruano, M. Flanagan, S. Pontarelli, J.A. Maestro
Title: "An Efficient Technique to Protect Serial Shift Registers against Soft Errors"
Volumen: 60 Pages, initial: 512 final: 516 Date: August 2013
Journal: IEEE Transactions on Circuits and Systems II (ISSN: 1549-7747)

Authors: P. Reviriego, O. Ruano, J.A. Maestro
Title: "Implementing concurrent Error Detection in Infinite-Impulse-Response Filters"
Volumen: 59 Pages, initial: 583 final: 586 Date: September 2012
Journal: IEEE Transactions on Circuits and Systems II (ISSN: 1549-7747)

Authors: O. Ruano, J.A. Maestro, P. Reviriego
Title: "A Fast and Efficient Technique to Apply Selective TMR through Optimization"
Volumen: 51 Pages, initial: 2388 final: 2401 Date: December 2011
Journal: Microelectronics Reliability (ISSN: 0026-2714)

Authors: O. Ruano, J.A. Maestro, P. Reviriego
Title: "A Methodology for Automatic Insertion of Selective TMR in Digital Circuits Affected by SEUs"
Volumen: 56 Pages, initial: 2091 final: 2102 Date: August 2009
Journal: IEEE Transactions on Nuclear Science (ISSN: 0018-9499)

C.2. Research projects and grants

Project Title: "Diseño, implementación y experimentación de técnicas de tolerancia a fallos para sistemas multi-procesador en aplicaciones espaciales embarcadas" (ESP2014-54505-C2-1-R).
Funding Organisation: Ministerio de Economía y Competitividad – Plan Nacional de Espacio.
Involvement Organisations: Universidad Antonio de Nebrija, INTA.
Length, from: 01/2015 to: 12/2017
Grant: 127.050 EUR
Lead Researcher: Juan Antonio Maestro de la Cuerda.

Project Title: Estudio de Técnicas de Protección frente a los efectos de la Radiación en entornos Espaciales para Circuitos Digitales de Procesado de Señal", ESP2006-04163.
Funding Organisation: Ministerio de Educación y Ciencia de España (Plan Nacional – Espacio)
Involvement Organisations: Universidad Antonio de Nebrija
Length, from: 2006 to: 2009 Grant: 75.000€
Lead Researcher: Dr. Juan Antonio Maestro de la Cuerda

Project Title: Diseño, simulación y experimentación con radiación sobre memorias y otros circuitos digitales complejos para aplicaciones espaciales embarcadas, AYA2009-13300-C03.
Funding Organisation: Ministerio de Educación y Ciencia de España.
Involvement Organisations: Universidad Antonio de Nebrija
Length, from: 2010 to: 2012 Grant: 118.000€
Lead Researcher: Dr. Juan Antonio Maestro de la Cuerda

Project Title: FT-GALILEO: Análisis de un transceptor GALILEO y propuesta de técnicas de optimización para su diseño eficiente y tolerante a fallos, 30/2009 Aeroespacial.
Funding Organisation: Comunidad Autónoma de Madrid.
Involvement Organisations: Universidad Antonio de Nebrija.
Length, from: 2009 to: 2010 Grant: 38.065€
Lead Researcher: Dr. Juan Antonio Maestro de la Cuerda

C.3. Contracts

C.4. Patents

1. Inventors: Juan Antonio Maestro, Pilar Reyes, Oscar Ruano, Pedro Reviriego
Title: "Método de detección y corrección de errores producidos por los efectos de la radiación en filtros de media móvil"
Application no.: P200602433 Country: Spain
Date: 11-10-2010
Entity: Universidad Antonio de Nebrija, Universidad Carlos III de Madrid
2. Inventors: Juan Antonio Maestro, Pilar Reyes, Oscar Ruano, Pedro Reviriego
Title: "Filtro de media móvil y método para la detección y corrección de errores utilizando paridad bidimensional"
Application no.: P200930207 Country: Spain
Date: 26-01-2011
Entity: Universidad Antonio de Nebrija, Universidad Carlos III de Madrid
3. Inventors: Juan Antonio Maestro, Pilar Reyes, Oscar Ruano, Pedro Reviriego
Title: "Método y filtro de media móvil para la detección y corrección de errores por medio de un filtro diezmado"
Application no.: P200930205 Country: Spain
Date: 16-05-2011
Entity: Universidad Antonio de Nebrija, Universidad Carlos III de Madrid

C.5, C.6, C.7... (e. g., Institutional responsibilities, memberships of scientific societies...)

PhD with distinction – Universidad Antonio de Nebrija –Year 2011.