

CV Date	6/9/2018
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Parte A. PERSONAL INFORMATION

First and Family Name	Rubén Santiago Montero		
ID Number	2909303X	Age	44
Researcher Numbers	Researcher ID	C-5346-2008	
	Código Orcid	0000-0003-2591-1719	
	Google Scholar	f64HmhgAAAAJ	

A.1. Current Position

University	Universidad Complutense de Madrid		
Department	Facultad de Informática		
Address	C/ Profesor José García Santesmases, 9		
Phone	913947538	Email	ubensm@ucm.es
Position	Profesor Titular de Universidad	From	04/04/2006
UNESCO code	ARQUITECTURA DE ORDENADORES (330406)		
Keywords	Distributed Computing, Cloud Computing		

A.2. Education

Grade	University	Year
Graduate in Physics Concentration in Computer Science	Fac. CC. Físicas - UCM	1998
Ph.D. in Physics Program in Computer Science	Fac. CC. Físicas - UCM	2002

A.3. Quality Indicators of Scientific Research

- **Research 6-year Periods (sexenios):** 3 (latest period in 2016)
- **Supervised PhDs:** 3 within the last 10 years
- According to an independent study,¹ contributed to 2 papers in the **top 20 cited publications in the field of cloud computing**
- **H-index of 33, i-10 of 55 and 6,346 citations²**
- **International Publications:** 105
- Participation and leadership roles in **7 European Union funded projects**.

Parte B. CV SUMMARY

Rubén S. Montero, PhD is an associate professor in the Department of Computer Architecture and Systems Engineering at Complutense University of Madrid. In the past, he has held several visiting positions at ICASE (NASA Langley Research Center, VA). Over the last years, he has published more than 100 scientific papers in the field of High-Performance Parallel and Distributed Computing, and contributed to more than 20 research and development programmes, some of them flagship projects of the EU in Cloud Computing like RESERVOIR or Stratuslab.

His research interests lie mainly in resource provisioning models for distributed systems, in particular: resource management and scheduling, distributed management of virtual machines and cloud computing, where he is especially interested in the inter-operation of cloud infrastructures. He is and has been also actively involved in several open source grid initiatives like the Globus Toolkit the GridWay metascheduler. Currently, he is leading the research and development activities of

¹ L. Heilig and S. VoBA, "Scientometric Analysis of Cloud Literature", IEEE Transactions on Cloud, Vol: 2, Issue: 3, July-Sept 2014

² <https://scholar.google.com/citations?user=f64HmhgAAAAJ&hl=en>

OpenNebula, a distributed virtual machine manager. He is also Co-founder and Technical Advisor of OpenNebula Systems.

Parte C. RELEVANT MERITS

C.1. Main Publications in the Last 10 Years

The following **ten representative publications, as main author in the last ten years**, have been selected for their **high citation scores and impact**.

1. B. Sotomayor, **R. S. Montero**, I. M. Llorente and I. Foster “Virtual Infrastructure Management in Private and Hybrid Clouds,” **IEEE Internet Computing** (13:5), 2010, pp. 14-22.
Citations: 1203 (Google Scholar) and 372 (Web of Science) **Impact Factor:** 3.108 (Rank: 5/93 and Q1)
2. B. Rochwerger, J. Caceres, **R. S. Montero**, D. Breitgand, E. Elmroth, A. Galis, E. Levy, I. M. Llorente, K. Nagin and Y. Wolfsthal “The RESERVOIR Model and Architecture for Open Federated Cloud Computing,” **IBM Journal of Research and Development** (53:4), 2009, pp. 4-11.
Citations: 893 (Google Scholar) and 223 (Web of Science) **Impact Factor:** 2.519 (Rank: 5/49 and Q1)
3. L. Rodero-Merino, L.M. Vaquero, V. Gil, F. Galan, J. Fontan, **R. S. Montero**, I. M. Llorente. “From infrastructure Delivery to Service Management in Clouds,” **Future Generation Computer Systems**, 26:1226-1240, October 2010.
Citations: 232 (Google Scholar) and 100 (Web of Science) **Impact Factor:** 2.371 (Rank: 10/97 and Q1)
4. R. Moreno-Vozmediano, **R. S. Montero**, I. M. Llorente. “Multi-Cloud Deployment of Computing Clusters for Loosely-Coupled MTC Applications,” **IEEE Transactions on Parallel and Distributed Systems**. Special Issue on many Task Computing, 22(6):924-930, April 2011.
Citations: 106 (Google Scholar) and 41 (Web of Science) **Impact Factor:** 1.402 (Rank: 18/99 and Q1)
5. D. S. Milojevic, I. M. Llorente, **R. S. Montero**. “OpenNebula: A Cloud Management Tool,” **IEEE Internet Computing**, 15(2):11-14, 2011.
Citations: 234 (Google Scholar) and 83 (Web of Science) **Impact Factor:** 2.000 (Rank: 5/104 and Q1)
6. R. Moreno-Vozmediano, **R. S. Montero**, I. M. Llorente. “IaaS Cloud Architecture: From Virtualized Data Centers to Federated Cloud Infrastructures,” **IEEE Computer**, 45(12):65-72, December 2012.
Citations: 213 (Google Scholar) and 74 (Web of Science) **Impact Factor:** 1.675 (Rank: 9/50 and Q1)
7. J. Tordsson, **R. S. Montero**, R. Moreno-Vozmediano and I. M. Llorente “Cloud brokering mechanisms for optimized placement of virtual machines across multiple providers,” **Future Generation Computer Systems** (28:2), 2012, pp. 358-367.
Citations: 307 (Google Scholar) and 138 (Web Science) **Impact Factor:** 1.864 (Rank: 15/100 and Q1)
8. R. Moreno-Vozmediano, **R. S. Montero**, I. M. Llorente. “Key Challenges in Cloud Computing to Enable the Future Internet of Services,” **IEEE Internet Computing**, 17(4):18-25, 2012.
Citations: 186 (Google Scholar) and 56 (Web of Science) **Impact Factor:** 2.039 (Rank: 10/105 and Q1)
9. J. Lucas-Simarro, R. Moreno-Vozmediano, **R. S. Montero** and I. M. Llorente “Scheduling Strategies for Optimal Service Deployment Across Multiple Clouds,” **Future Generation Computer Systems**, 29(6), 2013, pp. 1431-1441. *According to Elsevier, one of the most cited papers since 2013³*
Citations: 307 (Google Scholar) and 138 (Web of Science) **Impact Factor:** 2.369 (Rank: 8/102 and Q1)
10. E. Huedo, **R.S. Montero**, I.M. Llorente: “Grid Architecture from a Metascheduling Perspective”. **IEEE Computer** 43(7): 5156, 2010.
Citations: 15 (Google Scholar) and 138 (Web of Science) **Impact Factor:** 1.675 (Rank: 9/50 and Q1)

C.2. Research Projects and Grants

1. GRANTED EUROPEAN FP7 AND H2020 PROJECTS

Title:	BEACON - Enabling Federated Cloud Networking
Funding Agency:	EU H2020 grant agreement 644048
Start Date:	1 February 2015

³ <https://www.journals.elsevier.com/future-generation-computer-systems/most-cited-articles>

End Date:	31 July 2017
Principal Investigator:	Coordinator: Philippe Massonet (CETIC)
Funding:	Total: 3.500.000 euros UCM: 400.000 euros
Role:	Work Package Leader

Title:	<i>StratusLab - Enhancing Grid Infrastructures with Cloud Computing</i>
Funding Agency:	EU FP7 grant agreement 261552
Start Date:	1 June 2010
End Date:	31 May 2012
Principal Investigator:	Coordinator: Charles Loomis (CNRS)
Funding:	Total: 2.300.000 euros UCM: 437.000 euros
Role:	Scientific Coordinator

Title:	<i>BonFIRE - Building Service Testbeds on FIRE</i>
Funding Agency:	EU FP7 grant agreement 257386
Start Date:	1 June 2010
End Date:	30 November 2013
Principal Investigator:	Coordinator: Josep Martrat (ATOS ORIGIN)
Funding:	Total: 8.500.000 euros UCM: 223.680 euros
Role:	Work Package Leader

Title:	<i>RESERVOIR – Resources and Services Virtualization without Barriers</i>
Funding Agency:	EU FP7 grant agreement 215605
Start Date:	1 February 2008
End Date:	31 January 2011
Principal Investigator:	Coordinator: Eliot Salant (IBM)
Funding:	Total: 11.000.000 euros UCM: 1.000.000 euros
Role:	Work Package Leader

2. GRANTED SPANISH NATIONAL PROJECTS

Title:	<i>“Federación de Redes en Infraestructuras Cloud”</i>
Funding Agency:	TIN2015-65469-P
Start Date:	1 January 2016
End Date:	31 December 2018
Principal Investigator:	Ignacio Martín Llorente
Funding:	47.900 euros
Role:	Task Leader

Title:	<i>“Provision y Despliegue Automatico De Servicios En Cloud Computing”</i>
Funding Agency:	TIN2012-31518
Start Date:	1 January 2013
End Date:	31 December 2015
Principal Investigator:	Ignacio Martín Llorente
Funding:	30.000 euros
Role:	Task Leader

Title:	<i>“Infraestructuras Distribuidas Provisión de Recursos Computación”</i>
Funding Agency:	TIN2009-07146
Start Date:	1 January 2010
End Date:	31 December 2012
Principal Investigator:	Ignacio Martín Llorente
Funding:	160.000 euros
Role:	Task Leader