Rafael Angarita

Associate Professor

Isep
10, rue de Vanves, 92130 Issy-les-Moulineaux
✉ *rafael.angarita@isep.fr*
http://perso.isep.fr/rangarita/

Education

2012–2015 **Ph.D., Computer Science**.
Title: An Approach for Self-healing Transactional Composite Services.
Laboratory: LAMSADE, Université Paris-Dauphine, Paris, France.
Advisors: Marta RUKOZ and Maude MANOUVRIER.
Examiners:
- Stephan REIFF-MARGANIEC, University of Leicester, UK.
- Muhammad YOUNAS, Oxford Brookes University, UK.

Jury:
- Daniela GRIGORI, Université Paris-Dauphine, France.
- Schahram DUSTDAR, Vienna University of Technology, Austria.
- Pierre SENS, Université Paris 6 Pierre et Marie Curie, France.

Ph.D. thesis award: *Jeune Chercheur* award 2016 of the Paris-Dauphine Foundation.

2009–2012 **M.Sc., Computer Science**.
Laboratory : LDC, Universidad Simón Bolívar, Caracas, Venezuela.

Professional Experience

Teaching and Research

2016–2017. **Associate Professor**, *Isep*.

2017–today. **Associate Researcher**, *French Institute for Research in Computer Science and Automation (INRIA)*.

2016–2017. **Postdoctoral Researcher**, *French Institute for Research in Computer Science and Automation (INRIA) as part of the CityLab@Inria and Inria@SiliconValley program*.

2015–2016. **Research and Teaching Assistant**, *Université Paris Ouest Nanterre La Défense*, Nanterre, France.

2012–2015 **Research and Teaching Assistant**, *Université Paris-Dauphine*, Paris, France.

2011–2012 **Adjunct Professor**, *Universidad Simón Bolívar*, Caracas, Venezuela.

2007–2008 **Adjunct Professor**, *Universidad Católica Andrés Bello*, Caracas, Venezuela.

2004–2006 **Teaching Assistant**, *Universidad Católica Andrés Bello*, Caracas, Venezuela.

Software Developer

2010–2012 **Software Developer**, *Centro Nacional de Tecnologías de Información (CNTI)*, Caracas,Venezuela/Montevideo,Uruguay.

2007–2009 **Software Developer**, *Bamboo Solutions*, Caracas,Venezuela, Software Developer.

2006–2009 **Software Developer**, *Alterity Solutions*, Caracas,Venezuela.

2005 **Software Developer**, *Softech*, Caracas, Venezuela.

Publications

Journal Articles

[1] Rafael Angarita, Marta Rukoz, and Yudith Cardinale. Modeling dynamic recovery strategy for composite web services execution. *World Wide Web*, pages 1–21, 2015.

[2] Rafael Angarita, Yudith Cardinale, and Marta Rukoz. Reliable Composite Web Services Execution: Towards a Dynamic Recovery Decision . *Electronic Notes in Theoretical Computer Science*, 302(0):5 – 28, 2014.

[3] Yudith Cardinale, Marta Rukoz, and Rafael Angarita. Modeling Snapshot of Composite WS Execution by Colored Petri Nets. In *Resource Discovery*, volume 8194 of *Lecture Notes in Computer Science*, pages 23–44. Springer Berlin Heidelberg, 2013.

Conference and Workshop Papers

[4] Rafael Angarita, Nikolaos Georgantas, and Valerie Issarny. USNB: Enabling Universal Online Social Interactions. In *IEEE International Conference on Collaboration and Internet Computing. Best Paper Award (to appear)*, 2017.

[5] Rafael Angarita, Nikolaos Georgantas, Cristhian Parra, James Holston, and Valerie Issarny. Leveraging the Service Bus Paradigm for Computer-mediated Social Communication Interoperability. In *International Conference on Software Engineering (ICSE), Software Engineering in Society (SEIS) Track*, 2017.

[6] Rafael Angarita, Marta Rukoz, Maude Manouvrier, and Yudith Cardinale. A Knowledge-based Approach for Self-healing Service-oriented Applications. In *Proceedings of the Eighth International Conference on Management of Emergent Digital EcoSystems*, MEDES '16, pages 1–8, 2016.

[7] Rafael Angarita, Maude Manouvrier, and Marta Rukoz. An Agent Architecture to Enable Self-healing and Context-aware Web of Things Applications. In *Proceedings of the International Conference on Internet of Things and Big Data*, pages 82–87, 2016.

[8] Rafael Angarita. Responsible Objects: Towards Self-Healing Internet of Things Applications. In *Autonomic Computing (ICAC), 2015 IEEE International Conference on*, pages 307–312, July 2015.

[9] Rafael Angarita, Maude Manouvrier, and Marta Rukoz. A Framework for Transactional Service Selection Based on Crowdsourcing. In *Mobile Web and Intelligent Information Systems*, volume 9228 of *Lecture Notes in Computer Science*, pages 137–148. Springer International Publishing, 2015.

[10] Rafael Angarita. Dynamic Composite Web Service Execution by Providing Fault-Tolerance and QoS Monitoring. In *Service-Oriented Computing - ICSOC 2014 Workshops and Satellite Events, Paris, France, November 3-6, 2014*, pages 371–377, 2014.

[11] Rafael Angarita, Yudith Cardinale, and Marta Rukoz. Dynamic Recovery Decision During Composite Web Services Execution. In *Proceedings of the Fifth International*

Conference on Management of Emergent Digital EcoSystems, MEDES '13, pages 187–194, New York, NY, USA, 2013. ACM.

[12] Marta Rukoz, Yudith Cardinale, and Rafael Angarita. FACETA*: Checkpointing for Transactional Composite Web Service Execution based on Petri-Nets . *Procedia Computer Science*, 10(0):874 – 879, 2012.

[13] Rafael Angarita, Yudith Cardinale, and Marta Rukoz. FaCETa: Backward and Forward Recovery for Execution of Transactional Composite WS. In *Proceedings of the Fifth International Workshop on REsource Discovery (RED 2012)*, pages 1–15, Heraklion, Grece, 2012.

National Conference

[14] Rafael Angarita, Yudith Cardinale, and Marta Rukoz. Mechanismos de Tolerancia a Fallas para la Ejecución de Servicios Web Compuestos Transaccionales. In *Asociación Venezolana de Avances para la Ciencia (ASOVAC)*, 2012.

Seminars and other presentations

[15] Rafael Angarita. Leveraging the Service Bus Paradigm for Computer-mediated Social Communication Interoperability. *Inria's Junior Seminar, Inria Paris*, January 2017.

[16] Rafael Angarita. La plateforme AppCivist-PB pour le budget participatif. *Première Journée Scientifique e-éducation, Inria Learning Lab, Inria Paris*, November 2017.

[17] Rafael Angarita. Une approche auto-corrective pour des services composites transactionnels . *Ma thèse en 180 secondes, Université Paris-Dauphine*, April 2016.

[18] Rafael Angarita. Ideas on Agent Architectures for Self-healing and Context-aware Web of Things Applications. *Université Paris Ouest Nanterre La Défense*, February 2016.

[19] Rafael Angarita. An Approach for Self-healing Transactional Composite Service Execution. *LAMSADE, Université Paris-Dauphine*, July 2015.

[20] Rafael Angarita. Fault-tolerant execution for composite Web services. *LAMSADE, Université Paris-Dauphine*, October 2013.

Other Research Activities

Program Committee (PC) member, *3rd International Conference on Internet of Things, Big Data and Security (IoTBDS 2018)*, March 2018.

Session Chair, *The 3rd IEEE International Conference on Collaboration and Internet Computing (CIC 2017))*, October 2017.

Reviewer, *The International Conference on Computer Science and Application Engineering (CSAE 2017)*, October 2017.

Program Committee (PC) member, *Data and Knowledge Management track at the 5th International Conference on Future Internet of Things and Cloud (FiCloud 2017)*, August 2017.

Program Committee (PC) member, *Software Architecture and Middleware track at the 5th International Conference on Future Internet of Things and Cloud (FiCloud 2017)*, August 2017.

Co-reviewer, *The 20th International Conference on Fundamental Approaches to Software Engineering (FASE)*, December 2016.

Invited Researcher, *Social Apps Lab at CITRIS, University of California, Berkeley*, Berkeley, USA. From 02/10/2016 to 21/10/2016.

Session Chair, *The 6th annual Inria@SiliconValley Workshop: Berkeley-Inria-Stanford (BIS'2016)*, June 2016.

Session Chair, *Parallel Session 6- Internet of Things (IoT) Applications and Internet of Things (IoT) Fundamentals*, International Conference on Internet of Things and Big Data, April 2016.

Examiner, *Journal: PLUS ONE*, January 2015 and March 2015.

Local Organization Committee, *12th International Conference on Service Oriented Computing (ICSOC 2014)*, November 2014, Paris, France.

Invited Researcher, *University of Leicester*, Leicester, United Kingdom. From 17/09/2014 to 17/10/2014.

Summer School, *LASER*, ELBA, Italy. 2013.

Certifications

Sun Certified Programmer for the Java Platform, Standard Edition 6.

Sun Certified Solaris Associate.

Langages

English, Spanish, French.