



Curriculum Vitae

Yudith C. Cardinale Villarreal, PhD

Titular Professor

A) Personal information

1. **President of CLEI Venezuela Foundation**
2. **Vice President of Venezuelan Computing Association (SVC - Sociedad Venezolana de Computación)**
3. **Venezuelan Research and Innovation Promotion Programme:** Classified as PEII Level C (highest level).
4. **Nationality:** Venezuelan and Italian
5. **Idioms:**
 - Spanish:** native language
 - English:** fluently reading/writing/speaking
 - French:** fluently reading/writing/speaking
 - Italian:** reasonable reading/writing/speaking
6. **Work Address:** Universidad Simón Bolívar (USB). Dpto de Computación y T.I. Edif MYS. Ofic: MYS 220-A. 2do. Piso.
7. **Work Phone:** 58-212-906-3251, 58-416-804-7057
8. **E-mail:** ycardinale@usb.ve
9. **WWW:** <http://www ldc.usb.ve/~yudith/en>

B) Education

1. **Ph.D in Computer Science.** Universidad “Simón Bolívar” (USB). **Thesis Title:** *Process Execution Recovery in Metasystems based on Java.* **Advisor:** Dr. Emilio Hernández. July 2004.

2. **Master degree in Computer Science.** Universidad “Simón Bolívar” (USB). 1993.
3. **Computer Engineering.** Universidad Centro-Occidental “Lisandro Alvarado” (UCLA). 1990. **Graduated with honorific mention.**

C) Academic Experiences

1. University Staff

- **Titular Professor (pre and post-graduate courses).** Universidad “Simón Bolívar” (USB). **January 2003 - present.**
 - Coordinator** - Specialization in Telecommunications
 - Director** - Distributed and Parallel Research Group
 - Director** - Computer Science Academic Lab.
- **Adjunct Titular Professor** (post-graduate courses). Universidad Central de Venezuela (UCV). October 2010 - present.
- **Adjunct Titular Professor** (post-graduate courses). Universidad “Católica Andrés Bello” (UCAB). July 2002 - 2009.
- **Adjunct Associate Professor** (pre-graduate courses). Universidad “Católica Andrés Bello” (UCAB). September 1999 - February 2001.
- **Associate Professor.** Universidad “Simón Bolívar” (USB). January 1996 - December 2002.
- **Assistant Professor:** Universidad Centro-Occidental “Lisandro Alvarado” (UCLA). July 1990 - February 1996.

2. Courses/Teaching

- Operating Systems (undergraduate level)
- Introduction to Distributed Systems (undergraduate level)
- C and Java Programming (undergraduate level)
- Advanced Distributed Systems (undergraduate and postgraduate levels)
- Concurrent Programming (undergraduate and postgraduate levels)
- High Performance Computing Principles (undergraduate and postgraduate levels)
- High Performance Computing: Platforms and Programming (undergraduate and postgraduate levels)
- Parallel Programming Principles (undergraduate and postgraduate levels)
- Semantic Web Technologies (undergraduate and postgraduate levels)

3. Others Activities with students

- Coaching Simón Bolívar University team for The ACM International Collegiate Programming Contest (ACM-ICPC) – 1999 -2013.
- Coaching Simón Bolívar University team for ACM-ICPC World Finals: Orlando, Florida (2000); Prague, Czech Republic (2004); Shanghai, Republic of China (2005).

- Organization of Local and Regional ACM-ICPC.
- Organization of sports activities for students.

D) Journal Papers and Book Chapters

1. Alejandro Amaro; Federico Flaviani; Alejandro Figueroa; Ruby De Valencia; Yudith Cardinale. "Ontología para las Manifestaciones Rupestres en Venezuela: Hacia el Desarrollo de una Plataforma para la Preservación Digital". *Revista Venezolana de Computación - ReVeCom* (ISSN: 2244-7040) - Vol. 3, No. 2, pp. 57-67, December 2016. Selected among 8 best papers from IV Conferencia Nacional de Computación, Informática y Sistemas (CONCISA 2016), October 26-28, 2016. .
2. Rafael Angarita, Marta Rukoz, Yudith Cardinale. "Modelling dynamic recovery strategy for composite web services execution". *World Wide Web Journal Special Issue on Large-Scale Web Virtualized Environment*. Springer US. DOI 10.1007/s11280-015-0329-1. Vol. 19, No. 1, pp. 89 - 109. January, 2016. **Indexed in:** Science Citation Index Expanded (SciSearch), Journal Citation Reports/Science Edition, SCOPUS, INSPEC, and others. **Rank A** according ERA 2010.
3. Yudith Cardinale; Alejandro Figueroa; Alvaro Parada; Ronier Rodríguez; Solomon Asres; Richard Chbeir. "EDiM: Ecosistema Digital Multimedia Plataforma Novedosa de Colaboración y Compartimiento". *Tekhné. Revista de la Facultad de Ingeniería de la Universidad Católica Andrés Bello. Venezuela*. Vol. 1, Number 18. pp. 14 - 25. February, 2016. Presented at III Conferencia Nacional de Computación, Informática y Sistemas (CONCISA 2015) and selected to be published at the Tekhné journal.
4. Marcos Grillo, Yudith Cardinale, José Aguilar. "CrESTa: Ejecución Tolerante a Fallas de Servicios Web Compuestos basado en Crónicas". *Revista Venezolana de Computación - ReVeCom* (ISSN: 2244-7040) - Vol. 2, No. 1, pp. 1-13. Selected among 8 best papers from III Conferencia Nacional de Computación, Informática y Sistemas (CONCISA 2015), December 2015.
5. Rafael Angarita; Cardinale, Yudith; Marta Rukoz. "Reliable Composite Web Services Execution: Towards a Dynamic Recovery Decision". *Electronic Notes in Theoretical Computer Science*. Vol. 302, pp. 5 - 28. 2014. **Indexed in:** Scopus (Elsevier). **Rank C** according ERA 2010.
6. Cardinale, Yudith; Joyce El Haddad; Maude Manouvrier; Marta Rukoz. "Web Service Composition based on Petri Nets: review and contributions". pp. 1 - 39. LNCS by Springer volume of Fifth International Workshop of Resource Discovery 2012. 2013.
7. Cardinale, Yudith; Marta Rukoz; Angarita Rafael. "Modelling Snapshot of Composite WS Execution by Colored Petri Nets". pp. 1 - 22. LNCS by Springer volume of Fifth International Workshop of Resource Discovery 2012. Extended version. Vol. 8194, pp. 23 - 44. 2013.
8. Blanco, Eduardo; Cardinale, Yudith; Vidal, M. "A Non-Chronological Backtracking Unfolding Algorithm for Transactional Web Service Composition". *Procedia Computer Science*. Vol. 10, pp. 888 - 893. 2012. **Indexed in:** Conference Proceedings Citation Index, Scopus y Engineering Index.

9. Blanco, Eduardo; Cardinale, Yudith; Vidal, M. "Experiences of Sampling-Based Approaches for Estimating QoS Parameters in the Web Service Composition Problem". *INTERNATIONAL JOURNAL OF WEB AND GRID SERVICES*. Inderscience. Vol. 8 (1), pp. 1 - 30. 2012. **Indexed in:** Journal Citation Reports (Thomson Reuters), Scopus (Elsevier), Science Citation Index Expanded, and others. **Rank C** according ERA 2010.
10. Cardinale, Yudith; El Haddad Joyce; Manouvrier Maude; Rukoz Marta. "Transactional-aware Web Service Selection and Composition: A Survey ". pp. 116 - 141. Chapter 6. "Handbook of Research on Non-Functional Properties for Service-oriented Systems: Future Directions". Editors: Stephan Reiff-Marganiec and Marcel Tilly. IGI Global. Aachen, Germany. 2011. **Indexed in:** Scopus.
11. Cardinale, Yudith; El Haddad Joyce; Maude Manouvrier; Marta Rukoz. "CPN-TWS: A Colored Petri-Net Approach for Transactional-QoS driven Web Service Composition". *International Journal of Web and Grid Services (IJWGS)*. Vol. 7, # 1, pp. 1 - 25. 2011. **Indexed in:** Journal Citation Reports (Thomson Reuters), Scopus (Elsevier), Science Citation Index Expanded, Inderscience, and others. **Rank C** according ERA 2010.
12. Blanco, Eduardo; Cardinale, Yudith; Vidal, María-Esther. "Aggregating Functional and Non-Functional Properties to Identify Service Compositions". pp. 145 - 174. "Engineering Reliable Service Oriented Architecture: Managing Complexity and Service Level Agreements". Editors: Dr. Nikola Milanovic. IGI BOOK. Pennsylvania, USA. 2011.
13. Aquiles Barreto; Cardinale, Yudith. "Modelo de balance de carga para un cluster computacional basado en la estabilidad de Lyapunov". *Enl@ce Revista Venezolana de Información, Tecnología y Conocimiento*. Vol. 8 (3), pp. 83 - 101. 2011. **Indexed in:** Latindex, Scielo, Clase, Redalyc, Dialnet, EBSCO, Revencyt, OEI, HAPI, HELA, DOAJ, FONACIT, CONDES-LUZ, FUNDACITE Zulia.
14. Jesús De Oliveira, Yudith Cardinale, Eduardo Blanco and Carlos Figueira. "Distributed Libraries Management on Grid Platforms with JaDiMa". Book Chapter in IGI-Global: *Developing Advanced Web Services through P2P Computing and Autonomous Agents: Trends and Innovation*. 2010.
15. Blanco, Eduardo; Cardinale, Y.; Vidal, M; Jesús Graterol. "Techniques to Produce Optimal Web Service Compositions". *Services* 2008. Vol 1 (14). pp 553-558. 2008. **Rank B** according ERA 2010.
16. Cardinale, Y.; Blanco, Eduardo; De Oliveira, J. "JaDiMa: Virtual Machine Architecture for building JAVA Applications on Grid Platforms." *CLEI Electronic Journal*. Vol. 9 (2). pp 1 - 19. 2006. **Indexed in:** Scopus, LatinIndex, and others. **Rank C** according ERA 2010.
17. R. Rivas, M.B Ibáñez, Y. Cardinale and P. Windyga. "A parallel algorithm for 3D reconstruction of angiographic images." *Future Generation Computer Systems*. Vol. 16. pp. 533 - 539. 2000. **Rank A** according ERA 2010.

E) Conference Publications

1. Corentin Donzelli; Solomon Asres Kidanu; Richard Chbeir; Yudit Cardinale. "Onto2MAS: An Ontology-Based Framework for Automatic Multi-Agent System Generation". The 12th International Conference on SIGNAL IMAGE TECHNOLOGY & INTERNET BASED SYSTEMS, pp. 1–8. Naples, Italy, 28 November – 1 December, 2016.
2. Rafael Angarita; Marta Rukoz; Maude Manouvrier; Yudit Cardinale. "A Knowledge-based Approach for Self-healing Service-oriented Applications". International Conference on Management Digital EcoSystems (MEDES 2016), pp. 1–8, DOI: <http://dx.doi.org/10.1145/3012071.3012072>. Hendaye, France, November 1-4, 2016.
3. Alejandro Amaro; Federico Flaviani; Alejandro Figueroa; Ruby De Valencia; Yudit Cardinale. "Ontología para las Manifestaciones Rupestres en Venezuela: Hacia el Desarrollo de una Plataforma para la Preservación Digital". IV Conferencia Nacional de Computación, Informática y Sistemas (CONCISA 2016). pp. 101–111. ISBN: 978-980-7683-02-9. Caracas, Venezuela, October 26-28, 2016.
4. Solomon Asres Kidanu; Yudit Cardinale; Richard Chbeir; Victor De Ponte; Alejandro Figueroa; Ronier Rodríguez; Carlos Ibanez. "MMDES: Multimedia Digital Ecosystem. New Platform for Collaboration and Sharing". 19th IEEE International Conference on Computational Science and Engineering (CSE 2016). pp 1–8. Paris, France, August 24-26, 2016.
5. Yudit Cardinale; Joyce El Haddad; Maude Manouvrier; Marta Rukoz. "Measuring Fuzzy Atomicity for Composite Service Execution". **Invited paper**. The 2nd International Conference on Open and Big Data (OBD 2016). pp 1–10. Vienna, Austria, August 22-24, 2016.
6. David Zaragoza; Yudit Cardinale; Marta Rukoz. "SimSearch: Similarity Search Framework Based on Indexing Techniques in Metric Spaces". The 7th International Conference on Management of computational and collective Intelligence in Digital EcoSystems (MEDES'15). pp 90-97. Sao Paulo, Brazil. October 25-29, 2015.
7. Solomon Asres; Yudit Cardinale; Richard Chbeir. "A Multimedia-Oriented Digital Ecosystem: a New Collaborative Environment". 14th IEEE/ACIS International Conference on Computer and Information Science (ICIS). pp 1 - 6. Las Vegas, USA. June 2015. **Rank C** according ERA 2010.
8. Yudit Cardinale; Alejandro Figueroa; Alvaro Parada; Ronier Rodríguez; Solomon Asres; Richard Chbeir. "EDiM: Ecosistema Digital Multimedia Plataforma Novedosa de Colaboración y Compartimiento". III Conferencia Nacional de Computación, Informática y Sistemas (CONCISA). pp. 14 - 25. ISBN: 978-980-7683-01-2. Valencia, Venezuela, October 26-30, 2015.
9. Anwar Hasmy, José Palacios, Jhon Monrroy, Zaida Pinto, Yudit Cardinale. "SINAMAICA: Sistema Nacional Multidisciplinario de Acceso a Informaciones Científicas y Académicas". III Conferencia Nacional de Computación, Informática y Sistemas (CONCISA). pp. 1 - 5. Valencia, Venezuela. 26-30 October 2015.

10. Marcos Grillo, Wilmer Pereira, Yudith Cardinale. "Seguridad para la Autenticación, Cifrado y Firma en la Ejecución de Servicios Web Compuestos". III Conferencia Nacional de Computación, Informática y Sistemas (CONCISA). pp. 1 - 10. Valencia, Venezuela. 26-30 October 2015.
11. Fabiola Rosato; Javier Arguello; Cardinale, Yudith. "OPTIMUS: OPTImized Mail distribUtion System". XL Conferencia Latinoamericana en Informática (CLEI 2014). pp. 1 - 9. Montevideo, Uruguay. September 2014. **Rank C** according ERA 2010.
12. Victor De Ponte; Cardinale, Yudith. "Arquitectura de Ecosistema Digital para la Gestión de Contenido Multimedia". III Simposio Científico y Tecnológico en Computación. pp. 117 - 125. IEEEExplorer. Caracas, Venezuela. May 2014.
13. Fabiola Rosato; Javier Arguello; Cardinale, Y. "Balance de Carga y Tolerancia a Fallas en OPTIMUS (OPTImized Mail distribUtion System)". II Conferencia Nacional de Computación, Informática y Sistemas (CONCISA 2014). pp. 81 - 92. Caracas, Venezuela. October 2014.
14. Alvaro Hernández Orence; Figueira, C; Cardinale, Yudith. "Evaluación del Acceso Controlado a Datos Médicos sobre Bases de Datos Hipocráticas en Entorno P2P". II Conferencia Nacional de Computación, Informática y Sistemas (CONCISA 2014). pp. 209 - 213. Caracas, Venezuela. October 2014.
15. Manuel Rodríguez; Alejandro Azcunes; Cardinale, Yudith. "Predicción del Rendimiento de Jugadores de MLB en base a Estadísticas: Experiencias en un Entorno Big Data". II Conferencia Nacional de Computación, Informática y Sistemas (CONCISA 2014). pp. 267 - 275. Caracas, Venezuela. October 2014.
16. David Zaragoza; Cardinale, Yudith. "Búsqueda por Similitud de Contenido basada en Técnicas de Indexación en Espacios Métricos". CoNCISa 2013 - Conferencia Nacional de Computación, Informática y Sistemas. pp. 16 - 23. Naiguatá, Venezuela. October 2013.
17. Rafael Angarita; Cardinale, Y.; Marta Rukoz. "Dynamic Recovery Decision during Composite Web Services Execution". The International Conference on Management of Emergent Digital EcoSystems (MEDES2013). pp. 1 - 9. Proceedings indexed by ACM Digital Library, DBLP, and Odysci. Neumnster Abbey, Luxemburgo. October 2013.
18. Aquiles Barreto; Cardinale, Yudith. "Load balancing on a cluster computing based in the Routh-Hurwitz criterion". CLEI 2013 - Computational Theory Symposium. IEEEExplorer. pp. 287 - 297. Naiguatá, Venezuela. October 2013. **Rank C** according ERA 2010.
19. Ruby De Valencia; Nestor Manrique; Johann González; Cardinale, Yudith. "Manifestaciones Rupestres Venezolanas: La Comunicación, del Pasado al Presente en Realidad Aumentada". CoNCISa 2013 - Conferencia Nacional de Computación, Informática y Sistemas. pp. 85 - 90. Naiguatá, Venezuela. October 2013.
20. Figueira, C; Franco Silva; Cardinale, Y. "Information and Communication Technologies for Social Inclusion: Experiences in Venezuela". Modalidad: 4th Global Information Infrastructure and Networking Symposium. IEEE Xplorer. Choroní, Venezuela. December 2012.

21. Marta Rukoz; Cardinale, Y.; Rafael Angarita. "FaCETa*: Checkpointing for Transactional Composite Web Service Execution based on Petri-Nets". International Symposium on Advances in Transaction Processing (ATP 2012). Niagara Falls, Canada. pp. 1 - 6. August 2012.
22. Rafael Angarita; Cardinale, Y.; Marta Rukoz. "FaCETa: Backward and Forward Recovery for Execution of Transactional Composite WS". Fifth International Workshop on REsource Discovery (RED 2012). Heraklion, Greece. pp. 1 - 15. May 2012.
23. Jesús Campos; Cardinale, Y.; Hernández, E. "Arquitectura para Consulta de Imágenes Médicas Anotadas en un GRID: Servicios Basados en Ontologías". II Simposio Científico y Tecnológico en Computación. Caracas, Venezuela. pp. 1 - 7. May 2012.
24. Blanco, Eduardo; Cardinale, Y.; Vidal, M; Joyce El Haddad; Maude Manouvrier; Marta Rukoz. "A Transactional-QoS driven Approach for Web Service Composition". Presented in Resource Discovery - Third International Workshop, RED 2010, Paris, France, November 5, 2010, Revised Selected Papers published in Lectures Notes in Computer Science. Vol. 6799, pp. 23 - 42. 2012.
25. Cardinale, Y.; Marta Rukoz. "A Framework for Reliable Execution of Transactional Composite Web Services". pp. 129 - 136. The 3rd International Conference on Management of Emergent Digital EcoSystems. Published by ACM. San Francisco, USA. November 2011.
26. Cardinale, Y.; Marta Rukoz. "Fault Tolerant Execution of Transactional Composite Web Services: An Approach". pp. 1 - 7. The Fifth International Conference on Mobile Ubiquitous Computing, Systems, Services and Technologies. Published by XPS (Xpert Publishing Services). Lisbon, Portugal. November 2011. **Rank C** according ERA 2010.
27. Y. Cardinale, J. El Haddad, M. Manouvrier and M. Rukoz. *Web Service Selection for Transactional Composition*. International Conference on Computational Science (ICCS 2010). Elsevier Science - Procedia Computer Science Series. Vol 1, Issue 1, pp. 2683-2692. Amsterdam, The Netherlands. May 2010. **Rank A** according ERA 2010.
28. Keysis Kiss; Blanco, Eduardo; Cardinale, Yudith. "ORINOCO Framework: Publicación, Composición y Ejecución de Servicios Web en Ambientes Grid". XXXVI Conferencia Latinoamericana de Informática (CLEI 2010). Asunción, Paraguay. October 2010. Note: Selected as the best paper to be published at Novática Journal, # 208, November-December 2010. **Rank C** according ERA 2010.
29. Blanco, Eduardo; Cardinale, Yudith; Vidal, M. "A Sampling-Based Approach to Identify QoS for Web Service Orchestrations". The 12th International Conference on Information Integration and Web-based Applications & Services (iiWAS2010). pp. 1 - 10. Paris, France. November 2010. **Rank C** according ERA 2010.
30. Blanco, Eduardo; Cardinale, Yudith; Vidal, M; Joyce El Haddad; Maude Manouvrier; Marta Rukoz. "A Transactional-QoS driven Approach for Web Service Composition". Third International Workshop on REsource Discovery (RED 2010). pp. 1 - 15. Paris, France. November 2010.

31. Jesús De Oliveira; Jesús Federico; Rafael Chacón; David Zaragoza; Cardinale, Yudith. "Efficient Distributed Shared Memory on a Single System Image Operating System". pp. 1 - 7. Latin-American Conference on High Performance Computing (CLCAR). Gramado, Brazil. August 2010.
32. Y. Cardinale, Jesús De Oliveira and C. Figueira. "Dynamic and Secure Data Access Extensions of Grid Boundaries". Forth International Conference on Grid and Pervasive Computing (GPC'09). Lectures Notes in Computer Science. Vol. 5529. pp 36 - 47. Geneva May 2009. **Rank C** according ERA 2010.
33. De Oliveira, Jesús; Cardinale, Yudith; Jesús Federico; Rafael Chacón; David Zaragoza. "KRC-CE: High performance distributed shared memory clusters for gLite-based Grids". First EELA-2 Conference. Bogotá, Colombia. Feb. 2009.
34. Blanco, Eduardo; Cardinale, Y.; Vidal, M. "Techniques to Produce Good Web Service Compositions in The Semantic Grid". 5th European Semantic Web Conference (ESWC 2008 Ph.D. Symposium). Book: "CEUR Workshop Proceedings". Vol. 358. pp. 6 - 10. Tenerife, Spain. June 2008.
35. Escuela, Gabi; Cardinale, Y.; Jorge González. "Java-based Distributed Genetic Algorithm Framework". 19th IEEE International Conference on Tools with Artificial Intelligence (ICTAI 07). Patras, Greece. October 2007. **Rank B** according ERA 2010.
36. Y. Cardinale, Y. Cueto, C. Figueira y E. Hernández. "UCDT: Herramienta para el despliegue de aplicaciones en clusters". CLEI'07. XXXIII Conferencia Latinoamericana de Informática. San José, Costa Rica. October 2007. **Rank C** according ERA 2010.
37. Y. Cardinale and C. Figueira. "GiPS: A Grid Portal for Executing Java Applications on Globus-based Grids". The Fifth International Symposium on Parallel and Distributed Processing and Applications (ISPA-07). Lectures Notes in Computer Science, Springer-Verlag (Advances in Grid Computing). Vol. 4742. pp 669-682. Niagara Falls, Canada, August 29-31, 2007. **Rank B** according ERA 2010.
38. Cardinale, Y.; Figueira, C; Hernández, E; Blanco, E; and De Oliveira, J. "Middleware support for Java applications on Globus-based grids". The 2007 International Conference on Grid and Pervasive Computing (GPC'2007). Lectures Notes in Computer Science. Vol 4459. pp 627 - 641. Paris, May 2-4, 2007. **Rank C** according ERA 2010.
39. Cardinale, Y.; Figueira, C.;and De Oliveira, J. "Remote Class Prefetching: Improving Performance on a Java-based Grid". The Forth International Symposium on Parallel and Distributed Processing and Applications (ISPA'06). Lectures Notes in Computer Science. Vol. 4330. pp 594-606. Sorrento, Italy, December 2006. **Rank B** according ERA 2010.
40. Cardinale, Y.; Pereira, W.; Hernández, E. "Extended mpiJava for Distributed Checkpointing and Recovery". 13th European PVM/MPI Conference. Lectures Notes in Computer Science. Vol 4192. pp 158-165. Bonn, Germany. September 2006. **Rank C** according ERA 2010.
41. Cardinale, Y.; Blanco, Eduardo; De Oliveira, J. "JaDiMa: Java Applications Distributed Management on Grid Platforms". The 2006 International Conference on High Performance

- Computing and Communications. Lectures Notes in Computer Science. Vol 4208. pp 905 - 914. Munich, Germany. September 2006. **Rank B** according ERA 2010.
42. Y. Cardinale. C. Figueira y E. Hernández. "Acceso Seguro a Datos Confidenciales en Grids". CLEI'06. XXXII Conferencia Latinoamericana de Informática. Santiago de Chile, Chile. September 2006. **Rank C** according ERA 2010.
 43. Y. Cardinale and H. Casanova. "An Evaluation of Job Scheduling Strategies for Divisible Loads on Grid Platforms". High Performance Computing & Simulation (HPC&S) Conference Bonn, Germany. May 2006. **Rank B** according ERA 2010.
 44. Blanco, E.; Cardinale, Y.; Figueira, C; Hernández, E; Rivas, R.; Rukoz, M. "Remote Data Service Installation on a Grid-enabled Java Platform Computer Architecture and High Performance Computing". Symposium on Computer Architecture and High Performance Computing - SBAC-PAD 2005. Vol 1. pp. 85 – 91. Brazil, October 2005. **Rank B** according ERA 2010.
 45. Cardinale, Y.; Blanco, Eduardo; De Oliveira J. "JaDiMa: Arquitectura de Máquina Virtual para la Construcción de Aplicaciones Java en Plataformas Grids". CLEI'05. XXXI Conferencia Latinoamericana de Informática. Cali, Colombia. October 2005. **Rank C** according ERA 2010.
 46. Y. Cardinale and E. Hernández. "Parallel Checkpointing on a Grid-enabled Java Platform". Euro Grid (EGC-2005) Lectures Notes in Computer Science (Advances in Grid Computing). Vol 3470. pp 741 – 750. Amsterdam, Holland. Feb. 2005.
 47. P. García, Y. Cardinale and E. Hernández. "Experiencias con Localización y Asignación de Recursos para Realizar Cómputo Distribuido". TERCER CONGRESO IBEROAMERICANO DE TELEMÁTICA - CITA'03. Montevideo, Uruguay. October 2003.
 48. Y. Cardinale y E. Hernández. "Reanudación de Ejecución de Procesos en Metasistemas". CLEI'01. XXVII Conferencia Latinoamericana de Informática. Mérida, Venezuela. November 2001. **Rank C** according ERA 2010.
 49. P. García, Y. Cardinale. "Aspectos de Tolerancia a Fallas y Seguridad en Metasistemas". CLEI'01. XXVII Conferencia Latinoamericana de Informática. Mérida, Venezuela. November 2001. **Rank C** according ERA 2010.
 50. M. Curiel, Y. Cardinale, C. Figueira y E. Hernández. "Evaluación del Desempeño en Metasistemas". CLEI'01. XXVII Conferencia Latinoamericana de Informática. Mérida, Venezuela. November 2001. **Rank C** according ERA 2010.
 51. Y. Cardinale and E. Hernández. "Parallel Checkpointing Facility on a Metasystem". Parco 2001. Parallel Computing Conference 2001 Naples, Italy. September 2001. **Rank C** according ERA 2010.
 52. Y. Cardinale and E. Hernández. "Checkpointing Facility on a Metasystem". Euro-Par 2001. Lectures Notes in Computer Science. Vol. 2150. pp. 75 – 79. Manchester, UK. August 2001. **Rank A** according ERA 2010.

53. Y. Cardinale, M. Curiel, C. Figueira y E. Hernández. "SUMA: Un sistema de metacomputación basado en CORBA". Primer Congreso Iberoamericano de Telemática - CITA'2001 Cartagena de Indias, Colombia. August 2001.
54. Y. Cardinale, M. Curiel, C. Figueira y E. Hernández. "Implementation of a CORBA-based Metacomputing System". Workshop on Java for High Performance Computing 2001. Lectures Notes in Computer Science. Vol. 2110. pp. 629 – 636. Amsterdam, Holland. June 2001. **Rank C** according ERA 2010.
55. M. Curiel, Y. Cardinale, C. Figueira y E. Hernández. "Services for Modeling Metasystem Performance using Queuing Network Models Communication Networks and Distributed". Systems Modeling and Simulation Conference, (CNDS'2001). Phoenix, Arizona, USA. January 2001.
56. E. Hernández, Y. Cardinale, C. Figueira and A. Teruel. "SUMA:A Scientific Metacomputer". PARCO'99. Parallel Computing 99. Delft, Holland. August 1999. **Rank C** according ERA 2010.
57. R. Rivas, M.B Ibáñez, Y. Cardinale and P. Windyga. "A parallel algorithm for 3D reconstruction of angiographic images". HPCN'99. The 7th International Conference on High Performance Computing and Networking Europe. Amsterdam, Holland. April 1999.
58. Y. Cardinale, A. Cabrera, C. Cabrera y R. Rivas. "Paralelización por dominio del proceso de reconstrucción tridimensional del árbol coronario". CIC'97. Simposium Internacional de Computación. DF, México. November 1997.
59. R. Rivas, Y. Cardinale, M. B. Ibáñez y P. Windyga. "Enfoques de paralelización de la reconstrucción 3D de imágenes angiográficas". PANEL'97. XXIII Conferencia Latinoamericana de Informática. Valparaiso, Chile. November 1997.
60. Cardinale Y., Cunto M. de, Teruel A., Lánzara M. y Wong M. "Una herramienta de apoyo al diseño estructurado de programas paralelos". PANEL'93. XIX Conferencia Latinoamericana de Informática. Buenos Aires, Argentina. August 1993.

F) Participation in Scientific Organizations and Committees

1. Editor of ReVeCOM (Revista Venezolana de Computación). 2014-present.
2. Vice-President of Venezuelan Computing Association (SVC - Sociedad Venezolana de Computación). 2013-present.
3. President of CLEI Venezuela Foundation. 2012-present
4. Director of Research Group in Networks and Distributed Systems of USB (GRyDs- Grupo de Investigación en Redes y Sistemas Distribuidos). 2010-present.
5. Principal Chair of the Special Track in Big Data and Advanced Services of the International Conference on Management of computational and collective Intelligence in Digital EcoSystems (MEDES). 2017.

6. Principal Chair of Scientific Committee of CoNCISa (Conferencia Nacional en Computación, Informática y Sistemas). 2014, 2015, 2016.
7. Editor of Novatica 231, Special Number of "Las mujeres en la profesión informática: historia, actualidad y retos futuros". 2014-2015.
8. President of Organizing Committee of CoNCISa (Conferencia Nacional en Computación, Informática y Sistemas). 2013, 2014, 2016.
9. Principal Chair of Scientific Committee of LAWCC (Latin American Women in Computing Science Conference). 2013, 2014.
10. Participation in Organizing Committee as Publicity Chair of International Conference on Management of computational and collective Intelligence in Digital EcoSystems (MEDES). 2015, 2016, 2017.
11. Participation in the Organizing Committee as Publication Chair in The International Conference on High Performance Computing and Simulation (HPCS). 2007, 2008, 2009, 2010, 2011, 2012, 2014, 2015, 2016, 2017.
12. Participation in hundreds of program committees as principal reviewer of national and international conferences and journals.

G) Invited Professor

1. Université Paris Dauphine. Research Internship. Invited by Dr. Maude Manouvrier. Paris, France. 15 March - 15 April, 2017.
2. Université de Pau et des Pays de l'Adour (UPPA), IUT de Bayonne, Anglet. Sabbatical Year. Invited by Dr. Richard Chbeir. Biarritz, France. September 2016-March 2017.
3. Université Paris Ouest Nanterre La Défense and Université Paris Dauphine. Research Internship. Invited by Dr. Marta Rukoz. Paris, France. 15 May - 16 July, 2016.
4. Université Paris Ouest Nanterre La Défense. Research Internship. Invited by Dr. Marta Rukoz. Paris, France. 01 - 30 June, 2015.
5. Université de Pau et des Pays de l'Adour (UPPA), IUT de Bayonne, Anglet. Research Internship. Invited by Dr. Richard Chbeir. Biarritz, France. January-February 2014.
6. Université de Pau, et des Pays de l'Adour (UPPA), IUT de Bayonne, Anglet. Research Internship. Invited by Dr. Richard Chbeir. Biarritz, France. July, 2013.
7. Université Paris Dauphine. Research Internship. Invited by Dr. Marta Rukoz. Paris, France. 06 June - 08 July, 2013.
8. Université de Bourgogne. Research Internship. Invited by Dr. Richard Chbeir. Dijon, France. 24 April - 28 April, 2012.
9. Université Paris Dauphine. Research Internship. Invited by Dr. Marta Rukoz. Paris, France. 05 March - 05 May, 2012.

10. Université Paris Ouest Nanterre La Défense and Université Paris Dauphine. Sabbatical Year. Invited by Dr. Marta Rukoz, Dr. Maude Manouvrier, and Dr. Joyce El Haddad. Paris, France. September 2009-August 2010.
11. University of California in San Diego (UCSD). San Diego Super Computer Center (SDSC). Sabbatical Year. Invited by Dr. Henri Casanova. San Diego, California. September 2002-August 2003.

H) Research Projects:

1. *Multimedia Semantic Sensor Network (MSSN) Framework*

Directors of the Project: Richard Chbeir (Université de Pau et des Pays de l'Adour-UPPA).

Co-researchers: Prof. Yudith Cardinale (Simón Bolívar University-USB); Prof. Shohei Yokoyama (Shizuoka University); Doctoral student Chinnapong Angsuchotmetee from UPPA. Sponsored by UPPA (France). From 09-2016 to present.

2. *RDF Anonimization*

Directors of the Project: Richard Chbeir (UPPA).

Co-researchers: Prof. Yudith Cardinale (USB); Prof. Philippe Arnould (UPPA), Firas AL KHALIL (University College Cork); Sebastien Laborie (UPPA); Doctoral student Irvin Dongo from UPPA.

Sponsored by UPPA (France). From 09-2016 to present.

3. *HIT2GAP : Highly Innovative Building Control Tools Tackling the Energy Performance Gap*

Directors of the Project: Richard Chbeir (UPPA).

Co-researchers: Prof. Yudith Cardinale (USB); Prof. Doctoral students from UPPA.

Sponsored by European Union (France). From 09-2016 to present.

4. *Event Detection/Handling in Smart Energy Environments*

Directors of the Project: Richard Chbeir (UPPA).

Co-researchers: Prof. Yudith Cardinale (USB); Prof. Philippe Arnould (UPPA), Doctoral student Elio Mansour from UPPA.

Sponsored by UPPA (France). From 09-2016 to present.

5. *Multimedia Digital Ecosystems*

Directors of the Project: Richard Chbeir (UPPA).

Co-researchers: Prof. Yudith Cardinale (USB); Gilbert Tekli (Phd), Nobatek and LIUPPA, UPPA, France.

Sponsored by UPPA (France). From 09-2016 to present.

6. *Analysis of Telecommunications Infrastructure in Public Health Centers and Proposal of Technical Adjustments for e-health applications: Case Study Parroquias La Vega, Antímano and El Paraíso.*

Directors of the Project: Yudith Cardinale (Simón Bolívar University-USB); Ricardo Santana (Central University of Venezuela-UCV).

Co-researchers: Professors from Simón Bolívar University, professors from Central University of Venezuela (UCV).

Sponsored by FONACIT (Venezuela). From 04-2014 to 03-2016.

7. *Recovery and Strengthening of High Performance Computing Lab to offer Computing and Storage Services at Grand Scale for Applications of Environment, Habitat, Housing, Energy, and Health Areas.*

Directors of the Project: Yudith Cardinale (Simón Bolívar University-USB).

Co-researchers: Professors from Simón Bolívar University, professors from Central University of Venezuela (UCV).

Sponsored by FONACIT (Venezuela). From 04-2014 to 03-2015.

8. *L'Enregistrement, La Découverte, La Correspondance, La Composition, L'Evaluation et L'Exécution des Services Web.*

Directors of the Project: Yudith Cardinale (Simón Bolívar University-USB); Marta Rukoz (Université Paris Dauphine).

Co-researchers: Professors from Simón Bolívar University, professors from Central University of Venezuela (UCV), professors from Université Paris Dauphine, Conservatoire National des Arts et Metiers (CNAM), and Université Paris VI.

Sponsored by FONACIT (Venezuela) and CNRS (France). From 03-2009 to 12-2013.

9. *Development of a Hydro-climatic Data Repository to Manage epidemiology and ambient risks.*

Directors of the Project: Soraya Abad (Simón Bolívar University-USB); Acosta, D (Central University of Venezuela-UCV); Lelys Bravo (Simón Bolívar University).

Co-researchers: Llatas, I. (USB); Cardinale, Y.(USB); Ruckhaus, E.(USB); Vidal, M (USB); Ramos, Santiago (UCV); Delgado, Laura (UCV); Córdova, Karenia (UCV); Palacios, J (USB).

Sponsored by FIDETEL. From 01-2006 to 12-2010.

10. *Definition, adaptation, development and deployment of standards protocols and interfaces, based on open source software, for installing a Grid middleware in PDVSA.*

Directors of the Project: Yudith Cardinale, Emilio Hernández, Carlos Figueira (Simón Bolívar University)

Co-researchers: Professors from Simón Bolívar University.

Sponsored by Petróleos de Venezuela, SA (PDVSA, Government Oil Industry). From 04-2006 to 12-2008.

11. *Scheduling and Fault Tolerance on Ubiquitous Computational Environments*

Director of the Project: Emilio Hernández (Simón Bolívar University).

Co-researchers: Yudith Cardinale (USB); Leandro León (Los Andes University); Lisandro, J (Los Andes University).

Sponsored by FONACIT. From 12-2000 to 12-2004.

12. *Development of SUMA/G, a Scientific Ubiquitous Metacomputing Architecture*

Directors of the Project: Yudith Cardinale, Emilio Hernández, Carlos Figueira (Simón Bolívar University)

Co-researchers: Professors from Simón Bolívar University.

Sponsored by Research Department of USB. From 06-1999 to 12-2009.

I) Advising:

1. PhD in Computer Science

- Chinnapong Angsuchotmetee. *Event Processing in Multimedia Sensor Networks*, in co-direction with Dr. Richard Chbeir and Dr. Shohei Yokoyama. Université de Pau, France (in progress).
- Irvin Dongo. *Anonimization in RDF documents*, in co-direction with Dr. Richard Chbeir, Dr. Firas Al Khalil and Dr. Sebastien Laborie. Université de Pau, France (in progress).
- Elio Mansour. *User-centric Social Event Detection*, in co-direction with Dr. Richard Chbeir and Dr. Philippe Arnould. Université de Pau, France (in progress).
- Alejandro Amaro. *Open Linked Cultural Data*. Simón Bolívar University, Venezuela (in progress).
- Carlos Escobar. *Fault Tolerance in Web Services Compositions*. Simón Bolívar University, Venezuela (in progress).
- Solomos Asres. *Digital Ecosystem: For Better Management of Multimedia Contents*, in co-direction with Dr. Richard Chbeir. Université de Pau, France (2016).
- Rafael Angarita. *An Approach for Self-healing Transactional Composite Services*, in co-direction with Dr. M. Rukoz and Dr. Maude Manouvrier from Université Paris Dauphine. **Honorable Mention: Best PhD Thesis in Computer Science** (2015).
- Jesús Campos. *E-Health in Grid Computing*, in co-direction with Dr. Emilio Hernández. Simón Bolívar University, Venezuela (2015).
- Aquiles Barreto. *Dynamic Load Balancing Model for Computational Clusters based on Weak Migration and Krasovskii Method* (Modelo de Balance de Carga Dinámico para un Cluster de Cómputo basado en Migración Débil y el Método de Krasovskii). Simón Bolívar University, Venezuela. **Honorable Mention** (2014).
- Eduardo Blanco. *Optimization in Web Services Composition in Grid Environments* (Optimización en la Composición de Servicios WEB en Ambientes Grids), in co-direction with Dra. M-E. Vidal. Simón Bolívar University, Venezuela. **Honorable Mention** (2013).

2. Master in Computer Science

- Gabriel Cisneros. *Development of an e- government Model for Venezuela based on Cloud Computing Architectures* (Desarrollo de un Modelo de Gobierno Electrónico basado en una Arquitectura de Computación en la Nube aplicable a Venezuela). Information Systems Master at Simón Bolívar University, Venezuela (in progress).
- Javier Rojas. *Proposal of a strategic plan to promote the software industry in Venezuela* (Propuesta de Plan Estratégico para impulsar el crecimiento de la Industria del Software en Venezuela). Information Systems Master at Simón Bolívar University, Venezuela (in progress).
- Andrés Ortega. *Parallel Algorithm to Find Conformational Epitopes*, in co-direction with Dr. Raúl Isea from IDEA (Instituto de Estudios Avanzados - Advanced Studies Institute). Simón Bolívar University, Venezuela (in progress).
- Marcos Grillo. *Composite Web Services Execution with Cronicals*, in co-direction with Dr. Jose Aguilar from Universidad de Los Andes, Venezuela. Simón Bolívar University, Venezuela (in progress).
- Iván Guevara. *Fault Tolerance in Distributed Systems*. Universidad Católica Andrés Bello (in progress).
- Alvaro Hernández Orence. *Controlled Access to Medical Data into Hippocratic Databases*. Simón Bolívar University, Venezuela (in progress).
- Ramses López. *Semantic Web* Universidad Católica Andrés Bello (in progress).
- Patricia Simoy Hung. *Development of Framework to Visualize LTE Processes based in TS 23.401 standard* (Desarrollo de una Herramienta de Visualización de Procesos en LTE basado en el estándar TS 23.401). Simón Bolívar University, Venezuela (2016).
- Carlos Savignano. *Development of a Parallel Model Applied to Molecular Dynamics for Granular Materials* (Desarrollo de un Modelo de Paralelización Aplicado a Dinámica Molecular en Medios Granulares). Simón Bolívar University, Venezuela (2014).
- David Zaragoza. *SimSearch: Similarity Based Content Image Search with Indexing Techniques in Metric Spaces* (SimSearch: Búsqueda por Similitud de Contenido Basada en Técnicas de Indexación en Espacios Métricos), in co-direction with Dra. M. Rukoz from Université Paris Ouest-Nanterre La Défense. Simón Bolívar University, Venezuela (2014).
- Rafael Angarita. *Mechanisms for Fault Tolerance in the Execution of Transactional Composite Web Services* (Mecanismo de Tolerancia a Fallas para la Ejecución de Servicios WEB Compuestos Transaccionales), in co-direction with Dra. M. Rukoz from Université Paris Ouest-Nanterre La Défense. Simón Bolívar University, Venezuela. **Hon- orific Mention** (2012).
- Keysis Kiss. *Orinoco Framework: Infrastructure to Integrate Publication, Composition and Execution of Web Services in Grid Platforms* (Orinoco Framework: Prototipo de Infraestructura que Integra la Publicación, Composición y Ejecución de Servicios Web en Ambientes GRID), in co-direction with Prof. E. Blanco from Universidad Simón Bolívar. Universidad Central de Venezuela. **Hon- orific Mention** (2010).

- Julio Véliz. *Specialized Services for SUMA Metasystem* (Servicios Especializados para el Metasistema SUMA). Universidad Centro-Occidental Lisandro Alvarado (2004).
- Pedro García. *Reliability and Scalability in Metacomputing Systems* (Estabilidad y Escalabilidad en Sistemas de Metacomputación). Simón Bolívar University, Venezuela (2003).

3. Specialization in Telecommunications

- Daisy Brito. *Design of an IP Telephony Network for the interconnection of the NIELSEN VENEZUELA headquarters* (Diseño de red de telefonía sobre IP para la interconexión de las sedes de NIELSEN VENEZUELA). Simón Bolívar University, Venezuela (in progress)
- Elba D. Guerra. *Distributed storage system based on free software for the Department of Multimedia Services at USB* (Sistema de almacenamiento distribuido bajo herramientas libres para la Dirección de Servicios Multimedia de la USB). Simón Bolívar University, Venezuela (in progress).
- Manuel Mora. *Functionalities improvements for IVR Services at TELEFÓNICA VENEZUELA* (Descuento de cupo para llamadas de pase a operador en el IVR de TELEFÓNICA VENEZUELA). Simón Bolívar University, Venezuela (in progress).
- Jorge Pulido. *Monitoring Server Alarms, Remote Terminal Units, and Status of the Distribution and Transmission Network at CORPOELEC Distrito Capital* (Monitoreo de Alarmas de Servidores, Unidades Terminales Remotas (RTU) y de Estados de la Red de Distribución y Transmisión en CORPOELEC Distrito Capital). Simón Bolívar University, Venezuela (in progress).
- José Alexander Rangel. *Virtual Platform for Cristian Organizations: Diagnosis, Proposal, Valitation, Testing, and Evaluation* (Plataforma Virtual en Organizaciones Cristianas sin fines de lucro: Diagnóstico, Propuesta, Validación, Prueba Piloto y Evaluación). Simón Bolívar University, Venezuela (in progress).
- Jimmy Ortega. *Real Time Data Management for HSE Department in Gas and Oil Exploration* (Gestión de Datos en el Departamento de HSE en Tiempo Real y en Línea en Exploración Gasífera y Petrolera). Simón Bolívar University, Venezuela (in progress).
- Paola Palencia. *Search Engine for existing Reports in DIRECTV: Diagnosis, Proposal, and Validation* (Motor de Búsqueda de Reportes existentes en DIRECTV: Diagnóstico, Propuesta y Validación). Simón Bolívar University, Venezuela (in progress).
- Hans Hernández. *Data Network of Contingency for the Venezuelan Credit Bank between Caracas and Maracaibo* (Red de datos de contingencia para el Banco Venezolano de Crédito entre Caracas y Maracaibo). Simón Bolívar University, Venezuela (2017)
- Priscila Aguilar. *Automatic Calls with Asterisk to Support Event Notifications in the ODVSA Monitoring Center* (Llamadas Automáticas sobre Asterisk como Apoyo de la Notificación de Eventos en el Centro de Monitoreo de PDVSA). Simón Bolívar University, Venezuela (2015)
- Lisbeth Berbín. *Technological Process of Postulation System of National Electoral Council* (Procesos Tecnológicos del Sistema Automatizado de Postulaciones en el Consejo Nacional Electoral). Simón Bolívar University, Venezuela (2013).

- Paolo Ignoto. *Technological Support to Qualitative Evaluation for Teachers in 1st and 2nd Education Levels* (Herramienta Tecnológica de Evaluación Cualitativa para los Docentes de I Y II Etapa de Educación Básica). Simón Bolívar University, Venezuela **Honorific Mention** (2013).
- Asdrúbal Domínguez. *Hardware Resources Management in Server Hosts from Automation Department of National Electoral Council* (Gestión de Recursos de Hardware en los Servidores Informáticos de la Dirección General de Automatización del Consejo Nacional Electoral). Simón Bolívar University, Venezuela (2013).
- Henry Castro. *Information System for Administrative Tasks in TecnoServicios On/Off Company* (Sistema de Información para Tareas Administrativas en la Empresa TecnoServicios On/Off, C.A). Simón Bolívar University, Venezuela (2013).
- Jorge Izquierdo. *Development of an Automated, Multitasking, and Unified Sentinel System Applied to CALL CENTER CONTACTA.CALL* (Desarrollo de un Sistema Automatizado Sentinel Multitarea Unificado Aplicado al CALL CENTER CONTACTA.CALL). Simón Bolívar University, Venezuela (2011).
- Yelisbeth Briceño. *Analysis and Evaluation of a Video Conference System for Situational Rooms in Misión Ribas* (Estudio y Evaluación de un Sistema de Video Conferencias de Escritorio para las Salas Situacionales de la Misión Ribas). Simón Bolívar University, Venezuela (2011).
- Jesús García. *Design of a Tiflotechnology Pilot Center for Assistance and Training of the Population with Visual Impairment - Project of Comprehensive Disability Centers* (Diseño de un Centro Piloto de Tiflotecnología para la Atención y Formación de la Población con Discapacidad Visual - Proyecto de Centros Integrales de Discapacidad) Simón Bolívar University, Venezuela (2010).
- Jhon Delgado. *Security Model to Access Computing and Data Resources in Grid Platforms* (Modelo de Seguridad para el Acceso a Recursos de Cómputo y de Datos en Plataformas Grid). Universidad Católica Andrés Bello (2005).

J) Projects with Industries and Institutions

1. *Review and Evaluation of National Academic Network of Research Centers and Universities (REACCIUN); Evaluations of Internet 2 Platforms for REACCIUN; Proposal and Implementations of Services in REACCIUN.*

Institution/Company: National Center of Information Technology (CNTI, Centro Nacional de Tecnología de Información). January 2015 - present.

2. *Development of ANAR System: National Rock Art Repository.*

Institution/Company: National Rock Art Repository (ANAR, Archivo Nacional de Arte Rupestre). January 2012 - present.

3. *Identification of Opportunities and Formulation of Projects to Automate Services of the Mayoralty Libertador in Caracas.*

Institution/Company: Mayoralty Libertador, Caracas. January - December 2012.

4. *Design of the Pensum for the Superior School of Telecommunications and Computing.*
Institution/Company: National Center for Development and Research of Telecommunications (CENDIT, Centro Nacional de Desarrollo e Investigación de Telecomunicaciones). October 2011 - December 2012.
5. *Proposal of a National System for Studies Control of all Universities in Venezuela.*
Institution/Company: National Company of Telephones in Venezuela (CANTV, Compañía Anónima Nacional de Teléfonos de Venezuela). August - December 2011.
6. *Analysis and Evaluation of Web Semantic Technologies, Design of an Ontological Model to support Services of Venezuelan Central Bank.*
Institution/Company: Venezuelan Central Bank. July - December 2011.
7. *Review and Evaluation of Projects the Venezuelan State: system project management for Communal Councils; coordination and participation in activities to identify needs of information technology in organized communities; participation in the evaluation of standards in information technology, participation in technical committees related to the evaluation and design of software systems to support e-government.*
Institution/Company: National Center of Information Technology (CNTI, Centro Nacional de Tecnología de Información). January 2008 - December 2009.
8. *Definition, Adaptation, Development, and Deployment of Standard Protocols and Interfaces based on Free/Open Software, for a Grid Middleware Instalation in PDVSA.*
Institution/Company: Petróleos de Venezuela, SA (PDVSA, Government Oil Industry). April 2006 - December 2008.
9. *Statical Analysis of Final Audit Data of 2005 Presidential Elections.*
Institution/Company: National Electoral Council. September 2005 - December 2006.
10. *Evaluation, Selection, and Implementation of new Technologies for Medical Imaging in Latin American Pediatric Cardiology Hospital Gilberto Rodríguez Ochoa.*
Institution/Company: Latin American Pediatric Cardiology Hospital Gilberto Rodríguez Ochoa (Hospital Cardiológico Infantil Latinoamericano Gilberto Rodríguez Ochoa (HCIL-GRO)). January - December 2006.
11. *Integration and Coordination of Technological Centers in Venezuela.*
Institution/Company: Vice Presidency of Bolivarian Republic of Venezuela. January 2005 - December 2007.

K) Awards, Grants and Special Distinctions

1. Awards

- **Best Teacher Award of the year 2013-2014.** Universidad Simón Bolívar. January 19, 2015.

- **Best Athlete Teacher Award of the year 2013.** Universidad Simón Bolívar. April, 2014.
- **Best Paper Award:** *Orinoco Framework: Publicación, Composición y Ejecución de Servicios Web en Ambientes Grid.* XXXVI Conferencia Latinoamericana de Informática, CLEI 2010. October 2010.
- **Teaching Excellence Award, year 2008.** USB-Procter&Gamble Venezuela. November 2008.
- **First Place in IEEE-INELECTRA Contest of Degree Projects in Computing Science Engineering** (Guide Professor of Rodolfo Martínez (USB)) IEEE-INELECTRA Venezuela. September 2008.
- **Best Teacher Award in Computing Science Engineering, year 2007-2008. Merit Recognition.** Federation of Student Centers of USB. June 2008.
- **Second Place in IEEE-INELECTRA Contest of Degree Projects in Computing Science Engineering** (Guide Professor of Octavio Martín (UCAB)) IEEE-INELECTRA Venezuela. October 2005.
- **Meritorious Professor Level III.** National Commission of the System for Merits Recognition for National Universities Professors (CONABA, Comisión Nacional del Sistema para Reconocimiento de Méritos a los Profesores de las Universidades Nacionales). June 2004.
- **First Place in IEEE-INELECTRA Contest of Degree Projects in Computing Science Engineering** (Guide Professor of Pedro García, Luis Berbín, Roberto Bouza and Eduardo Baquero (USB)). IEEE-INELECTRA Venezuela. May 2001.
- **Meritorious Professor Level II.** National Commission of the System for Merits Recognition for National Universities Professors (CONABA, Comisión Nacional del Sistema para Reconocimiento de Méritos a los Profesores de las Universidades Nacionales). November 2001.
- **Meritorious Professor Level III.** National Commission of the System for Merits Recognition for National Universities Professors (CONABA, Comisión Nacional del Sistema para Reconocimiento de Méritos a los Profesores de las Universidades Nacionales). May 1996.
- **Best Teacher Award in Computing Science Engineering, Academic and Institutional Merits Recognition.** Universidad Centro-Occidental “Lisandro Alvarado”. July 1995.

2. Grants

- **Sabbatical year grant for research internship in Université Paris Dauphine.** Universidad Simón Bolívar. September 2009 - August 2010.
- **Sabbatical year grant for research internship in San Diego Supercomputer Center at UCSD.** Universidad Simón Bolívar. September 2002 - August 2003.
- **Grant for Master Studies** Universidad Centro-Occidental “Lisandro Alvarado”. July 1, 1990 - June 30, 1993.

3. Special Distinctions

- **PEII Level C.** *Venezuelan Research and Innovation Promotion Programme.* April 2011 - present.
- **PPI Level II.** *Venezuelan Researcher Promotion Programme.* January 2008 - December 2010.
- **PPI Level I.** *Venezuelan Researcher Promotion Programme.* January 2001 - December 2007.
- **PPI Candidate for Level I.** *Venezuelan Researcher Promotion Programme.* January 1999 - December 2000.
- **Cum Laude Distinction in the XII Promotion of Computer Engineers.** Universidad Centro-Occidental "Lisandro Alvarado". May 1990.
- **Third Best Grade Point Average (GPA) in the XII Promotion of Computer Engineers.** Universidad Centro-Occidental "Lisandro Alvarado". May 1990.

L) References

1. Dr. Marta Rukoz Université Paris Dauphine et Université Paris Ouest Nanterre La Défense, France. Email: mrukoz@gmail.com.
2. Dr. Richard Chbeir Université de Pau et des Pays de l'Adour (UPPA), France. Email: rchbeir@acm.org, richard.chbeir@univ-pau.fr. Phone: +33 (0)5 59 57 43 37. Fax : +33 5 59 57 43 08.
3. Dr. María-Esther Vidal. Universidad Simón Bolívar, Venezuela. Email: mvidal@umiacs.umd.edu, mariaesther.vidal.serodio@gmail.com, mvidal@usb.ve.
4. Dr. Jose Aguilar. Universidad de Los Andes, Venezuela. Email: aguilar@ula.ve
5. Dr. Hernán Astudillo. Universidad Técnica Federico Santa María, Chile. Email: hernan@inf.utfsm.cl.
6. Dr. Leonid Tineo. Universidad Simón Bolívar, Venezuela. Email: leonid@usb.ve.