

Professor Maria-Esther Vidal, PhD

CURRICULUM VITAE

NAME: Maria-Esther Vidal.

CITIZENSHIP: Venezuelan and Spanish.

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GROUP HOME PAGE: <http://www ldc.usb.ve/swg>

TITLE: Full Professor, Universidad Simón Bolívar, Caracas, Venezuela.

EDUCATION:

- 1995-2000: Doctor in Computer Science, Universidad Simón Bolívar, Caracas, Venezuela. Thesis with Honors. (15/05/2000). Advisor: Prof. Louiqa Raschid, PhD. University of Maryland. USA.
- 1989-1991: Master in Computer Science, Universidad Simón Bolívar, Caracas, Venezuela. Graduated with Honors (18/10/1991). Advisor: Dr. Alonso Márquez.
- 1982-1987: Computer Engineer, Universidad Simón Bolívar, Caracas, Venezuela (10/01/1988). Advisor: Prof. Nagib Callaos, PhD. Universidad Simón Bolívar. Venezuela.

External Links:

DBLP: <http://www.informatik.uni-trier.de/~ley/pers/hd/v/Vidal:Maria=Esther>

GOOGLE SCHOLAR : <http://scholar.google.co.ve/citations?user=vDyk0JgAAAAJ&hl=en>

ACM LIBRARY :

http://dl.acm.org/author_page.cfm?id=81100420307&coll=DL&dl=GUIDE&CFID=348966274&CFTOKEN=70358471

SCOPUS: <http://www.scopus.com/authid/detail.url?authorId=7202765018>

CURRENT POSITION:

2005-Present, Full Professor Computer Science Department, Universidad Simón Bolívar, Caracas, Venezuela.

APPOINTMENTS:

1988-1991: Lecturer, Computer Science Department, Universidad Simón Bolívar, Venezuela.

1991-1995: Assistant Professor, Computer Science Department, Universidad Simón Bolívar, Venezuela.

1995-1999: Faculty Research Assistant, Institute of Advanced Computer Studies (UMIACS), University of Maryland.

1999-2005: Associated Professor, Computer Science Department, Universidad Simón Bolívar, Caracas.

2005-Present: Full Professor Computer Science Department, Universidad Simón Bolívar, Caracas, Venezuela.

Summers from 2000-Current: Visiting Professor: University of Maryland Institute of Advanced Computer Studies (UMIACS).

2005-2006: Sabbatical Leave from Universidad Simón Bolívar- Visiting Professor, University of Maryland. Institute of Advanced Computer Studies (UMIACS), University of Maryland.

June 2012 Visiting Professor- Universidad Politécnica de Madrid. Lecturer in the Master Program

March 2003 Visiting Professor- Universidad Politécnica de Catalunya. Lecturer in the Graduate Program.

Other activities:

Dean Assistant for Research in Applied Sciences and Engineering, Universidad Simón Bolívar, Caracas, Venezuela (Sept 2011-Current).

Director of Direction for Faculty Development. Universidad Simón Bolívar, Caracas, Venezuela March-Sept 2011.

Head of the Semantic Web Group of the Universidad Simón Bolívar.

HONORS AND AWARDS:

Venezuelan Awards:

Research Fellowship Level II (Programa de Estimulo a la Investigación, 2008-Current).

Best Faculty of the Year:

Universidad Simón Bolívar, 2011-2012,

USB-Procter-Gamble 2004,

Universidad Simón Bolívar, 1999-2000.

Award to the Excellence.

October 1991. Fundación Gran Mariscal de Ayacucho.

International Awards:

Best Poster Award, 9th European Semantic Web Conference 2012.

Best Demo Paper Award, 9th European Semantic Web Conference 2012.

Best Poster Award, 6th European Semantic Web Conference 2009.

Best workshop paper award; 10th International Conference on Information Integration and Web-based Applications & Services (iiWAS 2008).

Best Paper Award. International Workshop on Applications of Logic Programming in the Semantic Web and Semantic Web Services. 2006.

Skills:

Areas of Interest:

Semantic Data Management, Graph Databases, Adaptive Query Processing, Query Rewriting, Query Optimization, Web Services, Link Prediction, Data Management in Life Sciences, Graph Databases, Data Integration and Data Cleaning.

Professional Experience:

Consulting on Data Integration and Migration,

Telcel BellSouth, from Feb 2000 - March 2005. Movistart Telefónica, from March 2005-2011.

Jury Innovation Program Wayra Telefónica, November

RESEARCH ACTIVITIES:

More than 90 papers in International Conferences, Workshops and Journals of the Database, The Semantic Web, and Artificial Intelligence areas. Professor Vidal has been reviewer and has participated in the Program Committee of several International Journals and Conferences.

Bibliometric information

- Author of 10 articles in peer-reviewed International journals.
- Author of 10 Book Chapters.
- 68 articles are not related to the PhD thesis.
- 8 articles are related to the PhD thesis.
- 55 articles are without the PhD supervisor.
- SCOPUS (January, 2014) 75 publications, 177 Citations, H index 8. Coauthors 81. Data between 1999 and 2014. <http://www.scopus.com/authid/detail.url?authorId=7202765018>
- Google Scholar: Citations 960, H-index 15, i10-index: 27.

Peer Reviewed International Conferences:

- Guillermo Palma, Maria-Esther Vidal, Louiqa Raschid. Drug-Target Interaction Prediction Using Semantic Similarity and Edge Partitioning. ISWC 2014.
- Guillermo Palma, Maria-Esther Vidal, Louiqa Raschid and Andreas Thor. Exploiting Semantics from Ontologies and Shared Annotations to Partition Linked Data. DILS 2014: 120-127. Springer 2014 Lecture Notes in Computer Science ISBN 978-3-319-08589-0.
 - Guillermo Palma, Maria-Esther Vidal, Eric Haag, Louiqa Raschid and Andreas Thor. Measuring Relatedness Between Scientific Entities in Annotation Datasets. ACM BCB. 2013.
 - Ana Alvarado, Oriana Baldizan, Marlene Goncalves, Maria-Esther Vidal. FOPA: A Final Object Pruning Algorithm to Efficiently Produce Skyline Points DEXA 2013. Springer 2013 Lecture Notes in Computer Science. Part I, LNCS 8055.
 - Gabriela Montoya, Luis-Daniel Ibáñez, Hala Skaf-Molli, Pascal Molli, Maria-Esther Vidal. GUN: An Efficient Execution Strategy for Querying the Web of Data. DEXA 2013. Springer 2013 Lecture Notes in Computer Science. Part I, LNCS 8055.
 - Joseph Benik, Caren Chang, Louiqa Raschid, Maria-Esther Vidal, Guillermo Palma, Andreas Thor: Finding Cross Genome Patterns in Annotation Graphs. DILS 2012: 21-36. Springer 2012 Lecture Notes in Computer Science ISBN 978-3-642-31039-3.
 - Gabriela Montoya, Maria-Esther Vidal, Óscar Corcho, Edna Ruckhaus, Carlos Buil Aranda: Benchmarking Federated SPARQL Query Engines: Are Existing Testbeds Enough? International Semantic Web Conference (2) 2012: 313-324.
 - Philip Anderson, Andreas Thor, Joseph Benik, Louiqa Raschid, Maria-Esther Vidal: PANg: finding patterns in annotation graphs. SIGMOD Conference 2012: 677-680.
 - Tomas Lampo, Maria-Esther Vidal, Juan Danilow, Edna Ruckhaus: To Cache or Not To Cache: The Effects of Warming Cache in Complex SPARQL Queries. ODBASE, OTM Conferences (2) 2011: 716-733.
 - Maribel Acosta, Maria-Esther Vidal, Tomas Lampo, Julio Castillo, Edna Ruckhaus: ANAPSID: An Adaptive Query Processing Engine for SPARQL Endpoints. International Semantic Web Conference (1) 2011: 18-34.
 - Maria-Esther Vidal, Edna Ruckhaus, Tomas Lampo, Amadís Martínez, Javier Sierra, Axel Polleres: Efficiently Joining Group Patterns in SPARQL Queries. ESWC (1) 2010: 228-242.
 - Eduardo Blanco, Yudith Cardinale, Maria-Esther Vidal: A sampling-based approach to identify QoS for web service orchestrations. iiWAS 2010: 25-32.
 - Elsa Liliana Tovar, Maria-Esther Vidal: Expressing and Managing Reactivity in the Semantic Web. ODBASE, OTM Conferences (2) 2010: 1018-1035.
 - Daniel Izquierdo, Maria-Esther Vidal, Blai Bonet: An Expressive and Efficient Solution to the Service Selection Problem. International Semantic Web Conference (1) 2010: 386-401.
 - Marlene Goncalves, Maria-Esther Vidal: Reaching the Top of the Skyline: An Efficient Indexed Algorithm for Top-k Skyline Queries. DEXA 2009: 471-485.
 - Ramakrishna Varadarajan, Vagelis Hristidis, Louiqa Raschid, Maria-Esther Vidal, Luis Daniel Ibáñez, Héctor Rodríguez-Drumond: Flexible and efficient querying and ranking on hyperlinked data sources. EDBT 2009: 553-564.
 - Zoé Lacroix, Maria-Esther Vidal, Christophe Legendre: Customized and Optimized Service Selection with ProtocolDB. Globe 2009: 112-123.
 - Nadia Yacoubi Ayadi, Zoé Lacroix, Maria-Esther Vidal: BiOnMap: a deductive approach for resource discovery. iiWAS 2008: 477-482.
 - Eduardo Blanco, Yudith Cardinale, Maria-Esther Vidal, Jesús Graterol: Techniques to Produce Optimal Web Service Compositions. SERVICES I 2008: 553-558.
 - Yolifé Arvelo, Blai Bonet, Maria-Esther Vidal: Compilation of Query-Rewriting Problems into Tractable Fragments of Propositional Logic. AAAI 2006: 225-230.
 - Marlene Goncalves, Maria-Esther Vidal: Preferred Skyline: A Hybrid Approach Between SQLf and Skyline. DEXA 2005: 375-384.
 - Zoé Lacroix, Kaushal Parekh, Maria-Esther Vidal, Marelis Cardenas, Natalia Marquez: BioNavigation:

Selecting Optimum Paths Through Biological Resources to Evaluate Ontological Navigational Queries. DILS 2005: 275-283.

- Zoé Lacroix, Louiqa Raschid, Maria-Esther Vidal: Efficient Techniques to Explore and Rank Paths in Life Science Data Sources. DILS 2004: 187-202.
- Zoé Lacroix, Tiffany Morris, Kaushal Parekh, Louiqa Raschid, Maria-Esther Vidal: Exploiting Multiple Paths to Express Scientific Queries. SSDBM 2004: 357-360.
- Zoé Lacroix, Kaushal Parekh, Louiqa Raschid, Maria-Esther Vidal: Navigating through the Biological Maze. CSB 2004: 594-595.
- Edna Ruckhaus, Maria-Esther Vidal: WebSOGO: A Global Ontology for Describing Web Sources. SAC 2003: 1199-1205.
- Vladimir Zadorozhny, Louiqa Raschid, Maria-Esther Vidal, Tolga Urhan, Laura Bright: Efficient evaluation of queries in a mediator for WebSources. SIGMOD Conference 2002: 85-96.
- Vladimir Zadorozhny, Laura Bright, Louiqa Raschid, Tolga Urhan, Maria-Esther Vidal: Web Query Optimizer. ICDE 2000: 661-663.
- Jean-Robert Gruser, Louiqa Raschid, Maria-Esther Vidal, Laura Bright: Wrapper Generation for Web Accessible Data Sources. CoopIS 1998: 14-23.
Maria-Esther Vidal, Louiqa Raschid, Jean-Robert Gruser: A Meta-Wrapper for Scaling up to Multiple Autonomous Distributed Information Sources. CoopIS 1998: 148-157.

Peer Reviewed Journal Papers:

- Gabriela Montoya, Luis-Daniel Ibañez, Hala Skaf-Molli, Pascal Molli, Maria-Esther Vidal. SemLAV: Local-as-View Mediation for SPARQL queries. Transactions on Large-Scale Data- and Knowledge-Centered Systems XIII. Springer 2014 Lecture Notes in Computer Science ISBN 978-3-642-54425-5, 13: 33-58, (2014).
- Maria-Esther Vidal, Jean-Carlo Rivera, Luis-Daniel Ibanez, Louiqa Raschid, Guillermo Palma, Hector Rodriguez, and Edna Ruckhaus. An Authority-flow based Ranking Approach to Discover Potential Novel Associations Between Linked Data. Semantic Web Journal. Volume 5, Number 1, 2014.
- Marlene Goncalves, Maria-Esther Vidal. Efficiently Producing the K Nearest Neighbors in the Skyline on VPT. Accepted at the International Journal of Information Retrieval Research. Volume 1 Number 3, 2013.
- Eduardo Blanco, Yudith Cardinale, Maria-Esther Vidal: Experiences of sampling-based approaches for estimating QoS parameters in the Web Service composition problem. IJWGS 8(1): 1-30 (2012).
- Eduardo Blanco, Yudith Cardinale, Maria-Esther Vidal: A Non-Chronological Backtracking Unfolding Algorithm for Transactional Web Service Composition. Procedia CS 10: 888-893 (2012).
- Edna Ruckhaus, Eduardo Ruiz, Maria-Esther Vidal: Query evaluation and optimization in the semantic web. TPLP 8(3): 393-409 (2008)
- Sarah Cohen Boulakia, Susan B. Davidson, Christine Froidevaux, Zoé Lacroix, Maria-Esther Vidal: Path-based Systems to Guide Scientists in the Maze of Biological Data Sources. J. Bioinformatics and Computational Biology 4(5): 1069-1096 (2006).
- Jens Bleiholder, Zoé Lacroix, Hyma Murthy, Felix Naumann, Louiqa Raschid, Maria-Esther Vidal: BioFast: Challenges in Exploring Linked Life Science Sources. SIGMOD Record 33(2): 72-77 (2004).
- George A. Mihaila, Louiqa Raschid, Maria-Esther Vidal: Source Selection and Ranking in the WebSemantics Architecture: Using Quality of Data Metadata. Advances in Computers 55: 87-118 (2001).
- Laura Bright, Jean Robert Gruser, Louiqa Raschid, Maria-Esther Vidal. "A Wrapper Generation toolkit to specify and construct Wrappers for Web Accessible Sources (WebSources)". International Journal on Computer Systems Special Issue on Semantics in the WWW. Vol 14, Number 2, pages 83-97, March 1999.

Peer Reviewed Indexed Book Chapters:

- Alexandra La Cruz, Alexander Baranya, and Maria-Esther Vidal. Medical Image Rendering and Description Driven by Semantic Annotations. Revised Selected Papers. Springer 2013 Lecture Notes in Computer Science ISBN 978-3-642-45262-8

- Edna Ruckhaus and Maria-Esther Vidal. LiQuate -Estimating the Quality of Links in the Linking Open Data Cloud. Revised Selected Papers. Springer 2013 Lecture Notes in Computer Science ISBN 978-3-642-45262-8
- Marlene Goncalves, Francisco Castro, Luis Alberto Vidal, Maribel Acosta, Maria-Esther Vidal. Mining Electoral Data for Effective Campaigns and E-Participation: A Case Study in Venezuela. In Z. Mahmood (Ed.), E-Government Implementation and Practice in Developing Countries (pp. 59-82). Hershey, PA: Information Science Reference. doi:10.4018/978-1-4666-4090-0.ch003, 2013.
- Maria-Esther Vidal, Amadís Martínez, Edna Ruckhaus, Tomas Lampo, Javier Sierra: On the Efficiency of Querying and Storing RDF Documents. In S. Sakr, & E. Pardede (Eds.), Graph Data Management: Techniques and Applications (pp. 354-385). Hershey, PA: Information Science Reference. doi:10.4018/978-1-61350-053-8.ch016
- Marlene Goncalves and Maria-Esther Vidal. "Evaluating Top-k Skyline Queries Efficiently." Advanced Database Query Systems: Techniques, Applications and Technologies. IGI Global, 2011. 102-117. Web. 25 Jun. 2013. doi:10.4018/978-1-60960-475-2.ch004.
- Eduardo Blanco, Yudith Cardinale, Maria-Esther Vidal. Aggregating Functional and Non-Functional Properties to Identify Service Compositions. Engineering Reliable Service Oriented Architecture: Managing Complexity and Service Level Agreements, Edition: 1, Chapter: 8, Publisher: IGI Global, 2011. Editors: Nikola Milanovic (Model Labs - Berlin, pp.145-174. DOI:10.4018/978-1-60960-493-6.
- Olga Ferrer-Roca, Francisco Marcano, Maria-Esther Vidal, Edna Ruckhaus, Roberto Fernández-Baíllo, Xiomara Santos, Agustín Álvarez-Marquina and Enrique Iglesias. "Grid Technology in Telepatology and Personalised Treatment." Grid Technologies for E-Health: Applications for Telemedicine Services and Delivery. IGI Global, 2011. 117-128. Web. 25 Jun. 2013. doi:10.4018/978-1-61692-010-4.ch006 .
- Eduardo Blanco, Yudith Cardinale, Maria-Esther Vidal, Joyce El Haddad, Maude Manouvrier, Marta Rukoz: A Transactional-QoS Driven Approach for Web Service Composition. RED 2010: pp.23-42. Springer 2012 Lecture Notes in Computer Science ISBN 978-3-642-27391-9.
- Bernd Amann, Laure Berti-Equille, Zoé Lacroix, Maria-Esther Vidal: Challenges of Quality-Driven Resource Discovery. RED 2010: pp.181-189. Springer 2012 Lecture Notes in Computer Science ISBN 978-3-642-27391-9.
- Marlene Goncalves, Maria-Esther Vidal, Alfredo Regalado, Nadia Yacoubi Ayadi: Efficiently Selecting the Best Web Services. RED 2009: pp. 120-139. Springer 2010 Lecture Notes in Computer Science ISBN 978-3-642-14414-1.

Peer Reviewed International Workshops:

- Francisco Berrizbeitia, Maria-Esther Vidal. Traversing the Linking Open Data Cloud to Create News from Tweets. OTM Workshop 2014 Springer 2014 Lecture Notes in Computer Science.
- Alejandro Flores, Guillermo Palma, Valeria Pestana, José Piñero, Jonathan Queipo, José Sánchez, Maria-Esther Vidal. Choosing Between Graph Databases and RDF Engines for Consuming and Mining Linked Data. COLD 2013, Colocated with the 12th International Semantic Web Conference (ISWC-2013). CEUR-WS.org 2012 CEUR Workshop Proceedings.
 - Guillermo Palma, Maria-Esther Vidal, Louiqa Raschid, and Andreas Thor. Exploiting Semantics from Ontologies and Shared Annotations to Find Patterns in Annotated Linked Open Data. LISC 2013. Colocated with the 12th International Semantic Web Conference (ISWC-2013).
 - Ana Alvarado, Oriana Baldizan, Marlene Goncalves, Maria-Esther Vidal. FRAGOLA: Fabulous RANking of GastrONomy LocAtions. OTM Workshop 2013 Springer 2013 Lecture Notes in Computer Science.
 - Edna Ruckhaus, Maria-Esther Vidal. Analyzing Linked Data Quality with LiQuate. OTM Workshop 2013 (Accepted) Springer 2013 Lecture Notes in Computer Science.
 - Marlene Goncalves, Maria-Esther Vidal, Francisco Castro, Luis Vidal, Maribel Acosta: Ranking and Clustering Techniques to Support an Efficient E-Democracy. OTM Workshops 2012: 298-301. Springer 2012 Lecture Notes in Computer Science ISBN 978-3-642-33617-1.
 - Marlene Goncalves, Maria-Esther Vidal: Efficiently Producing the K Nearest Neighbors in the Skyline for Multidimensional Datasets. OTM Workshops 2012: 673-676. Springer 2012 Lecture Notes in Computer

Science ISBN 978-3-642-33617-1.

- Alexander Baranya, Luis Landaeta, Alexandra La Cruz, Maria-Esther Vidal: A Workflow for Improving Medical Visualization of Semantically Annotated CT-Images. SATBI+SWIM 2012, Colocated with the 11th International Semantic Web Conference (ISWC-2012). CEUR-WS.org 2012 CEUR Workshop Proceedings.
- Gabriela Montoya, Maria-Esther Vidal, Maribel Acosta: A Heuristic-Based Approach for Planning Federated SPARQL Queries. COLD 2012, Colocated with the 11th International Semantic Web Conference (ISWC-2012). CEUR-WS.org 2012 CEUR Workshop Proceedings.
- Maribel Acosta, Marlene Goncalves, Maria-Esther Vidal: CAREY: ClimAtological ContRol of EmergencY Regions. OTM Workshops 2011: 494-503. Springer 2011 Lecture Notes in Computer Science ISBN 978-3-642-25125-2.
- Tomas Lampo, Amadis Martinez, Edna Ruckhaus and Maria-Esther Vidal. How to Benchmark RDF Engines and Not Die Trying. International Workshop on Evaluation of Semantic Technologies (IWEST 2010), Colocated with the 9th International Semantic Web Conference (ISWC-2010). CEUR-WS.org 2010 CEUR Workshop Proceedings.
- Maria-Esther Vidal, Louiqa Raschid, Luis Ibanez, Hector Rodriguez, Jean Carlo Rivera and Edna Ruckhaus. A Ranking-Based Approach to Discover Semantic Associations Between Linked Data. Inductive Reasoning and Machine Learning for the Semantic Web, colocated with ESWC 2010. CEUR-WS.org 2010 CEUR Workshop Proceedings
- Edna Ruckhaus, Maria-Esther Vidal. The BAY-HIST Prediction Model for RDF Documents. Inductive Reasoning and Machine Learning for the Semantic Web, colocated with ESWC 2010. CEUR-WS.org 2010 CEUR Workshop Proceedings
- Maria-Esther Vidal, Tomas Lampo, Edna Ruckhaus, Javier Sierra and Amadis Martinez: OneQL: An Ontology-based Architecture to Efficiently Query Resources on the Semantic Web. The 5th International Workshop on Scalable Semantic Web Knowledge Base Systems (SSWS2009), Colocated with the 8th International Semantic Web Conference (ISWC-2009). CEUR-WS.org 2009 CEUR Workshop Proceedings.
- Elsa Liliana Tovar and Maria-Esther Vidal. REACTIVE: A Rule-based Framework to Process Reactivity. Proceedings of the 3rd International Workshop on Ontology Dynamics, (IWOD 2009), Colocated with the 8th International Semantic Web Conference (ISWC-2009). CEUR-WS.org 2012 CEUR Workshop Proceedings.
- Nadia Yacoubi Ayadi, Zoé Lacroix, Maria-Esther Vidal: A Deductive Approach for Resource Interoperability and Well-Defined Workflows. OTM Workshops 2008: 998-1009. Springer 2008 Lecture Notes in Computer Science ISBN 978-3-540-88874-1.
- Edna Ruckhaus, Maria-Esther Vidal, Eduardo Ruiz: OnEQL: An Ontology Efficient Query Language Engine for the Semantic Web. ALPSWS 2007. CEUR-WS.org 2012 CEUR Workshop Proceedings.
- Edna Ruckhaus, Eduardo Ruiz, Maria-Esther Vidal: Query Evaluation and Optimization in the Semantic Web. CoRR abs/0711.2087 (2007).
- Maria-Esther Vidal, Louiqa Raschid, Natalia Marquez, Marelis Cardenas, Yao Wu: Query Rewriting in the Semantic Web. ICDE Workshops 2006. Proceedings of the 22nd International Conference on Data Engineering Workshops, ICDE 2006. IEEE Computer Society 2006.
- Zoé Lacroix, Louiqa Raschid, Maria-Esther Vidal: Semantic Model to Integrate Biological Resources. ICDE Workshops 2006. Proceedings of the 22nd International Conference on Data Engineering Workshops, ICDE 2006. IEEE Computer Society 2006.
- Barbara A. Eckman, Terry Gaasterland, Zoé Lacroix, Louiqa Raschid, Ben Snyder, Maria-Esther Vidal: Implementing a Bioinformatics Pipeline (BIP) on a Mediator Platform: Comparing Cost and Quality of Alternate Choices. IEEE Workshop on Workflow and Data Flow for Scientific Applications (SciFlow'06). Proceedings of the 22nd International Conference on Data Engineering Workshops, ICDE 2006. IEEE Computer Society 2006.
- Louiqa Raschid, Yao Wu, Woei-Jyh Lee, Maria-Esther Vidal, Panayiotis Tsaparas, Padmini Srinivasan, Aditya Kumar Sehgal: Ranking target objects of navigational queries. pp. 27-34. Eighth ACM International Workshop on Web Information and Data Management (WIDM 2006), Arlington, Virginia, USA, November 10, 2006. ACM 2006 ISBN 1-59593-525-8.
- Zoé Lacroix, Kaushal Parekh, Maria-Esther Vidal, Marelis Cardenas, Natalia Marquez, Louiqa Raschid:

BioNavigation: Using Ontologies to Express Meaningful Navigational Queries Over Biological Resources. CSB Workshops 2005: 137-138.

- Marlene Goncalves, Maria-Esther Vidal: Top-k Skyline: A Unified Approach. OTM Workshops 2005: 790-799. Springer 2005 Lecture Notes in Computer Science ISBN 3-540-29739-1.
- George A. Mihaila, Felix Naumann, Louiqa Raschid, Maria-Esther Vidal: A Data Model and Query Language to Explore Enhanced Links and Paths in Life Science Sources. WebDB 2005: 133-138. Proceedings of the Eight International Workshop on the Web & Databases (WebDB 2005), Baltimore, Maryland, USA, Colocated with ACM SIGMOD/PODS 2005, June 16-17, 2005. 2005.
- Zoé Lacroix, Kaushal Parekh, Maria-Esther Vidal: Evaluation Paths to Express Scientific Queries. DEXA Workshops 2004: 371-375. IEEE Computer Society 2004 ISBN 0-7695-2195-9.
- Maria-Esther Vidal, Louiqa Raschid, Julián Mestre: Challenges in Selecting Paths for Navigational Queries: Trade-Off of Benefit of Path versus Cost of Plan. WebDB 2004: pp. 61-66. Proceedings of the Seventh International Workshop on the Web and Databases, WebDB 2004, Colocated with ACM SIGMOD/PODS 2004.
- Zoé Lacroix, Felix Naumann, Louiqa Raschid, Maria-Esther Vidal: Exploring Life Sciences Data Sources. IIWeb 2003: pp. 203-208. Proceedings of IJCAI-03 Workshop on Information Integration on the Web (IIWeb-03).
- Edna Ruckhaus, Maria-Esther Vidal: XWebSOGO: an ontology language to describe and query web sources. pp. 62-65. Fifth ACM CIKM International Workshop on Web Information and Data Management (WIDM 2003), ACM 2003.
- George A. Mihaila, Louiqa Raschid, Maria-Esther Vidal: Using Quality of Data Metadata for Source Selection and Ranking. pp. 93-98. Proceedings of the Third International Workshop on the Web and Databases, WebDB 2000, in conjunction with ACM PODS/SIGMOD 2000.
- Laura Bright, Louiqa Raschid, Maria-Esther Vidal: Optimization of Wrappers and Mediators for Web Accessible Data Sources (WebSources).pp. 40-44. CIKM'98 First Workshop on Web Information and Data Management (WIDM'98), ACM 1998.

Peer Reviewed Demo Papers:

- Maribel Acosta, Maria-Esther Vidal, Fabian Flock, Simon Castillo, and Andreas Harth. PLANET: Query Plan Visualizer for Shipping Policies against Single SPARQL Endpoints. Paper at ISWC Demo Track 2014.
- Alejandro Flores, Maria-Esther Vidal, Guillermo Palma. Graphium Chrysalis: Exploiting Graph Database Engines to Analyze RDF Graphs. Paper at ESWC Demo Track. 2014.
- Edna Ruckhaus, Maria-Esther Vidal, Simón Castillo, Oscar Burguillos, Oriana Baldizan. Analyzing Linked Data Quality with LiQuate. Paper at ESWC Demo Track. 2014.
- Pauline Folz, Gabriela Montoya, Hala Skaf-Molli, and Pascal Molli, Maria-Esther Vidal. SemLAV: Querying Deep Web and Linked Open Data with SPARQL. Paper at ESWC Demo Track. 2014.
- Simón Castillo, Guillermo Palma, Maria-Esther Vidal. SILURIAN: a Sparql visualizer for Understanding queries And fédérations. Demo and Poster Paper at ISWC Poster & Demos. 2013.
- Alejandro Flores, Guillermo Palma, Maria-Esther Vidal, Domingo De Abreu, Valeria Pestana, José Piñero, Jonathan Queipo, José Sánchez. GRAPHIUM: Visualizing Performance of Graph and RDF Engines on Linked Data. Demo and Poster Paper at ISWC Poster & Demos. 2013.
- Joseph Benik, Guillermo Palma, Louiqa Raschid, Andreas Thor, Maria-Esther Vidal: Mining Patterns from Clinical Trial Annotated Datasets by Exploiting the NCI Thesaurus. International Semantic Web Conference (Posters & Demos) 2012.
- Gabriela Montoya, Maria-Esther Vidal, Maribel Acosta. DEFENDER: a DEcomposer For queries against feDERations of endpoints. Demo Paper at Extended Semantic Web Conference 2012. Best Demo Paper Award.
- Maribel Acosta and Maria Esther Vidal. Evaluating Adaptive Query Processing Techniques for Federations of SPARQL Endpoints, International Semantic Web Conference (Demo Paper) 2011.
- Maribel Acosta, Marlene Goncalves and Maria Esther Vidal. Looking at CAREY: Controlling Climatological

Emergency Regions. International Semantic Web Conference (Demo Paper) 2011.

- Daniel Izquierdo, Maria-Esther Vidal, Blai Bonet: STEREO: a SaT-based tool for an optimal solution of the sERvice selEctiOn problem. International Semantic Web Conference (Demo Paper) 2010.
- Maria-Esther Vidal, Louiqa Raschid, Natalia Marquez, Jean Carlo Rivera, Edna Ruckhaus: BioNav: An Ontology-Based Framework to Discover Semantic Links in the Cloud of Linked Data. Demo Paper at ESWC (2) 2010: 441-44.

Peer Reviewed Poster Papers:

- Maribel Acosta, Maria-Esther Vidal, Fabian Flock, Simon Castillo, Carlos Buil-Aranda, and Andreas Harth. SHEPHERD: A Shipping-Based Query Processor to Enhance SPARQL Endpoint Performance. Paper at ISWC Poster Track 2014.
- Luis Landaeta, Alexander Baranya, Alexandra La Cruz, Maria-Esther Vidal. ANISE: an ANatomic SEMantic Visualizer. Poster at the Extended Semantic Web Conference ESWC 2012. Best Poster Paper.
- Maribel Acosta, Maria Esther Vidal, Edna Ruckhaus, Tomas Lampo and Julio Castillo. ANAPSID: An Adaptive Query Processing Engine for SPARQL Endpoints. Poster at the Extended Semantic Web Conference ESWC 2011.
- Edna Ruckhaus and Maria Esther Vidal. Linked BAY-HIST: Estimating Dependencies between Linked Data. Poster at the Extended Semantic Web Conference ESWC 2011.
- Maria-Esther Vidal, Edna Ruckhaus and Natalia Marquez. BioNav: A System to Discover Semantic Web Associations in the Life Sciences. Poster at the Extended Semantic Web Conference ESWC 2010. Best Poster Paper.
- Maria-Esther Vidal, Edna Ruckhaus, Tomas Lampo and Javier Sierra. GJoin: An Efficient Join Operator for SPARQL queries. Poster at the Extended Semantic Web Conference ESWC 2009.
- Edna Ruckhaus, Maria Esther Vidal, Eduardo Ruiz and Javier Sierra: A Cost-based Optimizer for SPARQL Queries. Poster at the Extended Semantic Web Conference ESWC 2008.

Peer Reviewed Journal Papers in Spanish (Science Citation Index):

- Amadis Martinez; Maria-Esther Vidal "Procesamiento Eficiente de Documentos RDF con Hipergrafos Dirigidos". REVISTA TECNICA DE LA FACULTAD DE INGENIERIA DE LA UNIVERSIDAD DEL ZULIA. Vol 34, Nro. 2. 2011.
- Amadis Martinez; Maria-Esther Vidal "Hipergrafos Dirigidos para Resource Description Framework (RDF)". REVISTA TECNICA DE LA FACULTAD DE INGENIERIA DE LA UNIVERSIDAD DEL ZULIA. Vol 33, pp-30-45. 2010
- Elsa Tovar; Maria-Esther Vidal. "Un Lenguaje para Expresar Reactividad en la Web Semántica". REVISTA TECNICA DE LA FACULTAD DE INGENIERIA DE LA UNIVERSIDAD DEL ZULIA. Vol 33, pp-1-15. 2010.
- Goncalves, M; Maria-Esther Vidal. "Efficient Evaluation of Top-k Skyline Queries". REVISTA TECNICA DE LA FACULTAD DE INGENIERIA DE LA UNIVERSIDAD DEL ZULIA. Vol. 32, No 2, 170 - 179, 2009.
- Elsa Tovar; Maria-Esther Vidal. "PreOptimizacion de Consultas en Fuentes de Datos con Capacidades Limitadas". INTERCIENCIA. 2008. Vol. 33, pp. 179 - 185.

Past PhD Students:

Dr. Marlene Goncalves (2009-Current Professor U Simón Bolívar), Dr. Edna Ruckhaus (2010, U Simón Bolívar), Dr. Elsa Tovar (2010, Current Professor U Carabobo), Dr. Amadís Martínez(2013, Current Professor U Carabobo), Dr. Eduardo Blanco (co-advisor Dr. Yudith Cardinale - 2013 ,Current Professor U Simón Bolívar).

Current PhD Student:

MSc. Guillermo Palma

Past Master Students:

Maribel Acosta (2012-Current PhD Student at KIT working with Rudi Studer), Gabriela Montoya (2013-Current PhD Student working with Pascal Molli at Nantes University), Daniel Izquierdo (2012), Nalatia Márquez (2009), Yolifé Arvelo (2006), Víctor Fuentes (2004), Elsa Tovar (2004), Amadís Martínez (2004).

Past Undergraduate Students: More than 60 students. Some: Luis Daniel Ibañez (Currently PhD student working with Pascal Molli at Nantes University), Oriana Baldazán (Currently at Humbolt University, Germany), Alejandro Rodríguez (PhD from University of Maryland, currently at Amazon), Antonio Gómez (MBA from MIT), Tomas Lampo (Currently at Apple, CA), Javier Sierra (Currently at Facebook, England), Jean Carlo Rivera, Ana Alvaro, Hector Rodriguez, Natalia Márquez, Marelis Cárdenas, etc.

Current Undergraduate Students: Currently 4 students.

Invited Talks

- “Integración de Datos en el Internet”. Database Group, Universidad Politécnica of Cataluña (2003).
- “OneQL: Efficiently Querying the Health Domain in the Semantic Web”. XV Winter Course of CATAI. Universidad de La Laguna (2007).
- “Identifying Golden Publications Efficiently”. XVI Winter Course of CATAI. Universidad de La Laguna (2008).
- “On the Discovery of Semantic Associations in the Semantic Web”. XVII Winter Course of CATAI. Universidad de La Laguna (2009).
- “BioSky: An Approach to Discover the Best Services Efficiently”. Keynote at the 3rd International SMR2 2009 Workshop on Service Matchmaking and Resource Retrieval in the Semantic Web, Colocated with the 8th International Semantic Web Conference (ISWC-2009).
- “Challenges for Efficient Query Processing in the Semantic Web”. Database Group-Computer Science Department. University of Leipzig (2011).
- “Challenges for Efficient Query Processing in the Semantic Web”. Management of Data, Information and Knowledge Group, National and Kapodistrian University of Athens (2012).
- “Challenges for Efficient Semantic Data Management in the Web of Data”. Semantic Group Meeting, Mayo Clinic (2012).
- “Adaptive Data Management Techniques for Federations of Endpoints”. Talk at the Dagstuhl Seminar 12171 Semantic Data Management, 2012.
- “Probabilistic Models and Reasoning for Link Consistency Checking and Validation”. Talk at the Dagstuhl Seminar 12171 Semantic Data Management, 2012.
- “Challenges for Efficient Semantic Data Management in the Web of Data”. Invited Talk at the TransWeb: Data on the Web Workshop. University of Nantes (2013).
- “Challenges for Semantic Data Managing in the Web of Data”, 1st Latin America Linked Data Meetup, University of Cuenca, Ecuador (2013).
- “Optimization Techniques in the Semantic Web”. Workshop in Nanotechnology and Nanoscience University Simón Bolívar, Venezuela (2013).
- “Impact of the Open Data in Venezuela”. Invited Talk and Panelist at the Open Government Workshop. Venezuelan Agency for Information Technology (CNTI). (July 2013).
- “Query Processing Challenges for Linked Data”. Invited Talk at the Computer Science Department and UMIACS. University of Maryland. (August 2013).
- “Challenges in Linked Data Management”. Invited Talk at the Department of Computer Architecture hosted by DAMA-UPC. University Politécnica de Cataluña. (September 2013).
- On the Efficiency and Effectiveness of Federated Semantic Data Management-ANAPSID An Adaptive Approach. CreDiBLE Thematic Working Days. Sophia Antioipolis France. February 2013.
- Impact of Open Data and Linked Data in Venezuela at BootCamp Data Journalism 2013.
- Invited Panelist at the Panel on “Data Protection and Security” at ESWC 2014.
- “Challenges for Mining and Consuming Linked Data”. Invited Talk at the Karlsruhe Institute of Technology (KIT) Germany, June 2014.

- “Challenges for Mining and Consuming Linked Data”. Invited Talk at the Database Research group at AT&T USA, August 2014.

Peer Reviewed Tutorials

- Semantic Data Management in Graph Databases in conjunction with Maribel Acosta, Alejandro Flores, Edna Ruckhaus (Extended Semantic Web Conference 2014). <http://www.labf.usb.ve/TUTORIAL2014/ESWC2014Tutorial/Home.html>
- Semantic Data Management in Graph Databases in conjunction with Maribel Acosta, Cosmin Basca, Edna Ruckhaus (Extended Semantic Web Conference 2013). http://www.slideshare.net/maribelacosta/slides-tutorialgraphdatabases-mac?from_search=6
- Adaptive Semantic Data Management Techniques for Federations of Endpoints in conjunction with Maribel Acosta, Cosmin Basca, Gabriela Montoya, Edna Ruckhaus (Extended Semantic Web Conference 2012). <http://www.labf.usb.ve/TUTORIAL2012/>
- Adaptive Semantic Data Management Techniques for Linked Data in conjunction with Edna Ruckhaus, and Maribel Acosta. (Extended Semantic Web Conference 2011). <http://ldc.usb.ve/ASDLD11/>

Synergistic Activities (selected)

- Member of the Editor Board of the Journal of Web Semantics.
- Associate Editor, ACM Data and Information Quality.
- Editor-in-Chief Open Journal of Semantics Web.
- Reviewer of IGI Book Chapters, Journals TKDE, DKE, ACM Survey, Data Semantics, Communications of ACM, Semantic Web Journal, Journal of Web Semantics, ACM Data and Information Quality, Methods of Information in Medicine, ACM Transactions on Computational Biology and Bioinformatics, ACM Information Sciences.
- PC Co-chair of the “Alberto Mendelzon International Workshop on Foundations of Data Management (AMW)” 2015.
- Co-chair of the track “Semantic Data Management, Big Data, and Scalability” ESWC 2014.
- Co-chair of the track “Semantic Data Management” ESWC 2013.
- Session Chair at ESWC 2011-2014, and ISWC 2012.
- Co-Chair of the Workshop Empirical 2014 in conjunction with ESWC 2014.
- Co-Chair of the Workshop on Resource Discovery (RED) in conjunction with the 12th International Conference on Information Integration and Web-based Applications & Services (Third edition), and in conjunction with the Extended Semantic Web Conference (Fourth, Fifth and Sixth Editions).
- (Selected) Program Committee Member of: ESWC (2011-2014), ESWC-Poster&Demo(2014), ISWC(2011-2014), ISWC-Evaluation Track(2012-2013), ISWC-Poster&Demo (2011-2014), AAI(2011-2014), EDBT(2012-2013), ICWS(2011-2013), CooPIS(2008-2014), DILS(2012-2014), WIDM(2010-2012), OTM Academic(2009-2014), WEBIST(2007-2014), ECAI(2014), GDM(2013-2014).
- Zoé Lacroix, Maria-Esther Vidal (Eds.): Resource Discovery - Third International Workshop, RED 2010, Paris, France, November 5, 2010, Revised Selected Papers. Lecture Notes in Computer Science 6799, Springer 2012, ISBN 978-3-642-27391-9.
- Accompanying Professor OTM Academic 2009-2014.
- Jury of the European ALBAN Fellowship Program.

Software:

ANAPSID (ISWC 2011 and COLD2012): An Adaptive SPARQL 1.0 and 1.1 query engine for federations of SPARQL endpoints. <https://github.com/anapsid/anapsid>

GH-RDF3X (ESWC 2010 and ODBASE 2011): Extension of the triple store RDF-3x with star-shaped based optimization and execution techniques. <https://github.com/gh-rdf3x/gh-rdf3x/>

MCDSAT (AAAI 2006 and ISWC 2010): A SAT-based approach for Local-As-View Query Rewriting. <https://code.google.com/p/mcdsat/>

Demos:

GRAPHIUM (ISWC 2013): visualization of performance and behavior of existing graph databases engines in core and mining graph-based tasks. <http://graphium ldc.usb.ve>

GRAPHIUM-CHRYSALIS (ESWC 2014): visualization of the graph invariants of existing RDF graphs. <http://graphium ldc.usb.ve/chrysalis/>

DEFENDER (ESWC 2011- Best Demo Award): visualization of existing federated engines in FedBench. <http://defender ldc.usb.ve>

SILURIAN (ISWC 2013): visualization of existing source selection techniques implemented in state-of-the-art SPARQL federated engines. <http://choroni ldc.usb.ve/silurian>

Collaborators and Affiliations

Maribel Acosta (advisee, currently at KIT, Germany), Eduardo Blanco (advisee), Blai Bonet (U Simón Bolívar), Sarah Cohen- Boulakia (U Pennsylvania), Susan B. Davidson (U Pennsylvania), Marlene Goncalves (advisee), Vagelis Hristidis (UC, Riverside), Luis Daniel Ibañez (advisee, currently at U Nantes, France), Zoe Lacroix (ASU), Tomas Lampo (advisee, currently at Apple, CA), Amadis Martínez (advisee), George Mihaila (IBM), Pascal Molli (U Nantes, France), Gabriela Montoya (advisee, currently at U Nantes, France), Felix Naumann (Potsdam), Axel Polleres (Vienna University of Economics & Business, Austria), Louiqa Raschid (UMCP), Marta Rukoz (U Paris Nanterre), Edna Ruckhaus (advisee), Elsa Tovar (advisee), Vladimir Zadorozhny (U Pittsburgh), Nadia Yacoubi Ayadi (advisee), Hala Skaf (U. of Nantes, France), Guillermo Palma (advisee), Cosmin Basca (U. of Zurich, Switzerland), Oscar Corcho (U. Politécnica de Madrid), Andreas Thor (U. of Passau).

Teaching Activities

In average 6 courses (undergraduate and graduate) per year (1988-1995; 2000-Current).

Lecturing the following undergraduate courses (Computer Engineering):

Database Systems; Paradigms of Data Models; Architecture and Administration of Databases; Symbolic Logic; Algorithms and Structures in Secondary Memory.

Lecturing the following graduate courses (Master and Doctorate in Computer Science):

Heterogeneous Databases; Semantic Web I; Semantic Web II; Research Seminar I; Research Seminar II

Grant application:

"Alma Mater". Fonacit-OPSU, Venezuela. 2004-2008.

"DESARROLLO RURAL: WEB SEMANTICA PARA LA GESTION, PLANIFICACION Y COORDINACION DESCENTRALIZADA EN TELEMEDICINA". Spanish Agency of Collaboration (AECI). 2007-2009. Spain-Venezuela.

"Mecanismos de Optimización y Evaluación para Consultar Eficientemente la Web Semántica en la Administración Pública Electrónica". Spanish Agency of Collaboration (AECI). 2007- 2008.

"Registro, Descubrimiento, Correspondencia, Composición, Evaluación y Ejecución de Servicios Web" FONACIT-CNRS. 2009-2011. Venezuela-France.

Project participation:

EUCLID EdUcational Curriculum for the usage of Linked Data-Partner 2012-Current (<http://euclid-project.eu/>)

SEALS - Semantic Evaluation At Large Scale - Associate member 2011-2012 (<http://www.seals-project.eu/>).

"III EAGER: Exploratory Research on the Annotated Biological Web". National Science Foundation CISE III Program. 2009-2011. USA.

"Semantic Map of Biological Data Sources: Entity Identity and Path Characterization". National Science Foundation. 2003-2007. USA.