

# ROBERTO YUS

University of Maryland, Baltimore County  
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Baltimore, MD 21250

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🏠 <https://robertoyus.com>

## EXPERIENCE

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<b>University of Maryland, Baltimore County</b> CSEE Department 1000 Hilltop Cir, Baltimore, MD 21250	08/23/2021 – now	<b>Assistant Professor</b>
<b>University of California, Irvine</b> CS Department Irvine, CA 92697	06/01/2016 – 06/01/2021 01/01/2015 – 05/01/2015	<b>Postdoctoral Researcher</b> <i>Supervisor: Sharad Mehrotra</i> <b>Visiting Researcher</b> <i>Host: Sharad Mehrotra</i>
<b>University of Maryland, Baltimore County</b> CSEE Department 1000 Hilltop Cir, Baltimore, MD 21250	06/01/2013 – 05/01/2014	<b>Visiting Researcher</b> <i>Hosts: Anupam Joshi / Tim Finin</i>
<b>University of Zaragoza (Spain)</b> DIIS Department C. de Pedro Cerbuna, 12, 50009 Zaragoza (Spain)	09/01/2010 – 04/01/2016	<b>Graduate Research Assistant</b> <i>Ph.D. Advisor: Eduardo Mena</i>

## EDUCATION

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<b>Ph.D. in Computer Science</b> <i>Thesis title: “Semantic Management of Location-Based Services in Wireless Environments”</i> <i>Honor/Distinction: Cum Laude</i>	03/17/2016	<i>University of Zaragoza</i>
<b>M.S. in Computer Science</b> <i>Thesis title: “Location-Dependent Query Processing for Live TV Broadcasting of Sport Events”</i>	01/24/2012	<i>University of Zaragoza</i>
<b>B.S. in Computer Science</b> <i>Thesis title: “A Tool to Support Learning Relational Algebra and Query Optimization”</i>	07/16/2010	<i>University of Zaragoza</i>

## RESEARCH SUPPORT

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### External Funding

INCS-CoE International Digital Trust Framework (Seed Funding) PIs: R. Yus, N. Karimi, S. Kai, T. Kondo, M. Sel, N. Panteli, K. Mersinas	\$40,000	06/01/2022 – 12/01/2022
Spanish Ministry of Science and Innovation #EEBB-I-15-10433 Predoctoral Mobility Grant	6,480€ (≈\$7,800)	01/01/2015 – 01/05/2015
Spanish Ministry of Science and Innovation #EEBB-I-14-08893 Predoctoral Mobility Grant	6,480€ (≈\$8,900)	01/01/2014 – 05/01/2014
Spanish Ministry of Science and Innovation #EEBB-I-13-07009 Predoctoral Mobility Grant	10,200€ (≈\$13,600)	06/01/2013 – 12/01/2013

### Internal Funding

UMBC Supplement for Undergraduate Research Experiences (SURE) award	\$1,500	09/01/2022 – 05/01/2023
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## PARTICIPATION IN RESEARCH PROJECTS

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**Privacy Cognizant IoT Environment for the Brandeis Program**, DARPA (FA8750-16-2-0021). PIs: S. Mehrotra, N. Venkatasubramanian, and A. Kobsa. Participation: May 2016 – May 2021.

Leading the design/development of TIPPERS, an IoT data management middleware. Focus on design of the interoperability layer and the abstraction from raw sensor data to higher-level semantic inferences.

**Creating an Extensible Data Exchange and Analytics Sandbox for Smart Water infrastructures**, NSF S&CC (#1952247). PIs: N. Venkatasubramanian, S. Mehrotra, S. Ren, D. Feldman, and R. Eguchi. Participation: Oct 2020 – May 2021

Design and development of an interoperability layer to integrate water related information from diverse sources, including from IoT sensors.

**4V: Volume, Velocity, Variety, and Veracity in the Innovative Management of Data**, Spanish Ministry of Science and Innovation (CICYT, TIN2013-46238-C4-4- R). PIs: E. Mena and S. Ilarri. Participation: Jan 2014 – Dec 2016.

Adaptation of semantic technologies to support knowledge representation/reasoning/integration in constrained mobile devices.

**Semantic Data Management in Wireless Environments**, Spanish Ministry of Science and Innovation (CICYT, TIN2010-21387-C02-02). PI: E. Mena. Participation: Jan 2011 – Dec 2013.

Design of a general and flexible agent-based architecture based on the use of semantic technologies to provide services to mobile users.

## AWARDS, RECOGNITION, AND PRESS

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Awards:

- 2nd place INCS-CoE Sandpit Challenge on Digital Trust 2022.
- Mark Weiser Best Paper Award at PerCom 2022.
- FPI Fellowship of the Spanish Ministry of Science and Innovation 2011-2015
- Student Travel Award – ISWC (2015,2014), WI-IAT (2015), CollaborateCom (2014)

Press:

- Huffington Post: *“Should I Click ‘Allow Cookies’ On Every Website That Asks?”*, 2022. [hyperlink]
- Publimetro (Mexico): *“Tus dispositivos inteligentes saben más de ti de lo que crees”*, 2022. [hyperlink]
- UMBC CSEE: *“UMBC faculty Karimi and Yus help team win 2nd place in Sandpit Challenge on Digital Trust”*, 2022. [hyperlink]
- Let’s Go There w/ Shira & Ryan – Channel Q: *“How your machines are spying on you”*, 2022. [hyperlink]
- The Conversation: *“Smart devices spy on you – 2 computer scientists explain how the Internet of Things can violate your privacy”*, 2022. [hyperlink]
- The Washington Post: *“The Technology 202: Tech to contain coronavirus on college campuses sparks fresh privacy concerns”*, 2020. [hyperlink]
- Defense Visual Information Distribution Service: *“NAVWAR Trident Warrior Team Assesses New Tracking Technology for COVID-19 Mitigation”*, 2020. [hyperlink]
- Health IT Analytics: *“UCI Uses Campus Wi-Fi to Test COVID-19 Contact Tracing App”*, 2020. [hyperlink]
- Military News: *“Navy tests experimental technology at Trident Warrior 2019”*, 2019. [hyperlink]
- UCI CS News: *“IoT Hackathon Apps Coming Soon”*, 2018. [hyperlink]
- UCI CS News: *“ICS launches IoT Hackathon to discover student talent who can develop a UCI ‘smart’ campus”*, 2017. [hyperlink]

- Nature: “*What could derail the wearables revolution?*”, 2015. [hyperlink]
- Infodocket: “*Interesting Research! FaceBlock App Allows Google Glass Users to Take Privacy-Aware Pictures*”, 2014. [hyperlink]

## SERVICE

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### Program Committee:

- Int. Conf. on Data Engineering (ICDE) 2023, 2017;
- Symposium On Applied Computing (SAC) - Interoperability Track & IoT and Edge Computing Track - 2023;
- ACM SIGEnergy Workshop on Fair, Accountable, Transparent, and Ethical (FATE) AI for Smart Environments and Energy Systems (@SenSys/BuildSys) 2021–2022;
- Int. Conf. on Advances in Semantic Processing (SEMAPRO) 2017–2022;
- Int. Conf. on Green Communications, Computing and Technologies (GREEN) 2020–2023;
- Int. Conf. on Big Data, Small Data, Linked Data and Open Data (ALLDATA) 2018;
- Int. Conf. on Advanced Collaborative Networks, Systems and Applications (COLLA) 2016–2019;
- Int. Workshop on Technology Enablers and Innovative Applications for Smart Cities (TESCA) 2019.

### Editorial Board:

- Sensors 2020–now;
- Frontiers in Big Data 2018–now.

### External Reviewer Conferences:

- Int. Conf. on Extending Database Technology (EDBT) 2016;
- Int. Conf. on Agents and Artificial Intelligence (ICAART) 2016;
- European Conf. on Information Systems (ECIS) 2016;
- Int. Conf. on Very Large Data Bases (VLDB) 2015;
- Extended Semantic Web Conf. (ESWC) 2014;
- AAAI Conf. on Artificial Intelligence (AAAI) 2014;
- Int. Conf. on Ontologies, DataBases, and Applications of Semantics (ODBASE) 2014.

### External Reviewer Journal:

- Communications of the ACM 2022;
- Pervasive and Mobile Computing 2022, 2019;
- Journal of Urban Technology 2021;
- IEEE Internet of Things Journal 2019;
- Telecommunication Systems 2016;
- The Scientific World Journal 2015;
- Journal of Internet Services and Applications 2015;
- EAI Endorsed Transactions on Ubiquitous Environments 2014;
- Distributed and Parallel Databases 2014;
- Journal of Systems and Software 2013;

- IEEE Multimedia 2013.

### Organizing Committee:

- 1st Workshop on Private, Secure, and Trustworthy IoT Data Management (ASTRIDE) at the 39th IEEE International Conference on Data Engineering (ICDE), 2023;
- 7th IEEE Int. Conf. on Smart Computing (SMARTCOMP), 2021;
- 1st Workshop on Mobile Deployment of Semantic Technologies (MoDeST) at the 14th Int. Semantic Web Conf. (ISWC), 2015;
- 17th Spanish Congress on Fuzzy Logic and Technologies (ESTYLF), 2014.

### Mentor:

- Center for Women in Technology - UMBC 2021–now;
- IoT-SITY Research Experiences for Undergraduates (IoT-SITY REU) 2017–2020;
- Summer Undergraduate Research Fellowship in the IoT (SURF-IoT) 2018–2020;
- Science Champions for Change 2021.

### Thesis Committee:

- *PhD*: Aidin Shiri (2023), Anantaa Kotal (2022), Sai Sree Laya Chukkapalli (2022), Naima Khan (2022).
- *MS*: Maksim Eren (2022).

### Other:

- Panelist at Diversity Panel, Society of Hispanic Professional Engineers, UMBC (2023)
- INCS-CoE Community Expert (2022 – Present)
- Judge at STEMinate science fair (2022).

## TEACHING

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**CMSC331 - Programming Languages** Fall 2022, UMBC, 40 students.

**CMSC491/691 - Data Privacy** Spring 2022, UMBC, 40 students.

**CMSC331 - Programming Languages** Fall 2021, UMBC, 40 students.

## RESEARCH ADVISEES

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### Current Ph.D. advisees:

- *UMBC*: Aamir Hamid (2023–Present), Sanaa Mironov (2023–Present), Christian Badolato (2023–Present).
- *Telecom SudParis*: Jun Ma (2022–Present).

**Current M.S. advisees:** Hemanth Reddy Samidi (2023), Sai Sragvi Vibhushan Nidamarti (2021-2023), Sarang Patil (2021-2023).

**Current undergraduates:** Jahir Bakari (2023), Nikki Cayas (2023), Qanita Baqibillah (2023), Aliza Garrison (2022-2023), Joshua Cheeks (2022-2023), Luke Zimmermann (2022-2023), Ruhshana Bobojonova (2022-2023), Tartela Tabassum (2022-2023).

### Past M.S. advisees (\* → Thesis defended):

- *UMBC*: Lasya Chitturi (2022), Dharani Madireddy (2022), Meenakshi Desu (2022), Nikhil Boddu (2022), Akhil Movva (2022), Sanaa Mironov (2022), Chetan Mediboyina\* (2022-2023).
- *Telecom SudParis*: Jun Ma\* (2022), Zainab Rahal\* (2021).

- *Unizar*: Enrique Solano\* (2013-2015), Gorka Guerrero\* (2012).

### Past undergraduates (\* → Thesis defended):

- *UMBC*: Emma Williams (2021-2023), Diyor Mamarakhimov (2022).
- *UCI*: Aliyah Byon (2020-2021), Vikram Miryala (2020-2021), William Sun (2020), Stuart McClintock (2020), Anna Lubienski (2020), Alpine Tang (2020), Nathan Ma (2020), Yiming Wang (2020), Jason Huang (2020), Leo Peng (2019-2020), Jesse Chong (2019-2020), Tristan Jogminas (2019-2020), Lasse Nordahl (2019-2020), Andrei Homentcovschi (2019-2020), DongCheol Jwa (2019), HyeEun Song (2019), MyoungHoon Han (2019), Hyunji Lee (2019), Jingyu Chen (2019), Rayan Al Atab (2019), Cynthia Wang (2019), Rohit Sriram (2019), Jorge Carlos (2019), Owen Yang (2017-2019), Joshua Cao (2017-2019), Kyle Norland (2018), Fangfang Fu (2017), Angel Castro (2017), Rushabh Shah (2016-2019), Karthik Gajulapalli (2016-2018).
- *Unizar*: Ismael Rodriguez\* (2015-2016).

## PUBLICATIONS

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### Peer-Reviewed Conference Proceedings

1. One-Shot Federated Group Collaborative Filtering. M. E. Eren, M. Bhattarai, N. Solovyev, L. E. Richards, R. Yus, C. Nicholas, and B. S. Alexandrov. 21st IEEE International Conference on Machine Learning and Applications (ICMLA), 2022. *C CORE2021*
2. Sentauro: Sensor Observable Data Model for Smart Spaces. P. Gupta, S. Mehrotra, S. Sharma, R. Yus, and N. Venkatasubramanian. 31st ACM International Conference on Information and Knowledge Management (CIKM), 2022. *A CORE2021; Google h5-index 69*
3. JENNER: Just-in-time Enrichment in Query Processing. D. Ghosh, P. Gupta, R. Yus, S. Mehrotra, and Y. Altowim. Proc. VLDB Endow. 15, 2022. *A\* CORE2021; Google h5-index 73*
4. SmartSPEC: Customizable Smart Space Datasets via Event-Driven Simulations. A. Chio, D. Jiang, P. Gupta, G. Bouloukakis, R. Yus, S. Mehrotra, and N. Venkatasubramanian. 20th International Conference on Pervasive Computing and Communications (PerCom), 2022. **Best paper award.** *A\* CORE2021; Google h5-index 27*
5. LOCATER: Cleaning WiFi Connectivity Datasets for Semantic Localization. Y. Lin, D. Jiang, R. Yus, G. Bouloukakis, A. Chio, S. Mehrotra, and N. Venkatasubramanian. Proc. VLDB Endow. 14, 2021. *A\* CORE2021; Google h5-index 73*
6. SmartBench: A Benchmark For Data Management In Smart Spaces. P. Gupta, M. J. Carey, S. Mehrotra, and R. Yus. Proc. VLDB Endow. 13(11): 1807-1820, 2020. *A\* CORE2021; Google h5-index 73*
7. Sieve: A Middleware Approach to Scalable Access Control for Database Management Systems. P. Pappachan, R. Yus, S. Mehrotra, and J. C. Freytag. Proc. VLDB Endow. 13(11): 2424-2437, 2020. *A\* CORE2021; Google h5-index 73*
8. Abstracting Interactions with IoT Devices Towards a Semantic Vision of Smart Spaces. R. Yus, G. Bouloukakis, S. Mehrotra, and N. Venkatasubramanian. 6th ACM International Conference on Systems for Energy-Efficient Buildings, Cities, and Transportation (BuildSys), 2019: 91-100. *A CORE2018; Google h5-index 22*
9. Trustworthy Privacy Policy Translation in Untrusted IoT Environments. M. H. Diallo, N. Panwar, R. Yus, and S. Mehrotra. 3rd International Conference on Internet of Things, Big Data and Security (IoTBDs): 132-143, 2018.
10. Exploring fairness in participatory thermal comfort control in smart buildings. E. J. Shin, R. Yus, S. Mehrotra, and N. Venkatasubramanian. 4th ACM International Conference on Systems for Energy-Efficient Buildings, Cities, and Transportation (BuildSys): 19:1-19:10, 2017. *A CORE2018; Google h5-index 22*
11. Continuous Processing of Real-Time Multimedia Requests Using Semantic Techniques. R. Yus and E. Mena. 13th International Conference on Advances in Mobile Computing and Multimedia (MoMM): 216-220, 2015. *B CORE2020; Google h5-index 11*

12. Generic Rules for the Discovery of Subsumption Relationships based on Ontological Contexts. R. Yus, E. Mena, and E. Solano-Bes. 2015 IEEE/WIC/ACM International Conference on Web Intelligence (WI): 309-312, 2015. *B CORE2020; Google h5-index 18*
13. Rafiki: A Semantic and Collaborative Approach to Community Health-Care in Underserved Areas. P. Pappachan, R. Yus, A. Joshi, and T. Finin. 10th International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom): 322-331, 2014. *C CORE2020; Google h5-index 15*
14. Location-aware System Based on a Dynamic 3D Model to Help in Live Broadcasting of Sport Events. R. Yus, E. Mena, J. Bernad, S. Ilarri, and A. Illarramendi. 19th ACM International Conference on Multimedia (MM): 1005-1008, 2011. *A\* CORE2020; Google h5-index 58*

### Peer-Reviewed Journal Articles

1. The SemIoTic Ecosystem: A Semantic Bridge between IoT Devices and Smart Spaces. R. Yus, G. Bouloukakakis, S. Mehrotra, and N. Venkatasubramanian. ACM Transactions on Internet Technology, 2022. *IF: 3.135 JCR2021; Google h5-index 33*
2. Transitioning from testbeds to ships: an experience study in deploying the TIPPERS Internet of Things platform to the US Navy. D. Archer, M. August, G. Bouloukakakis, C. Davison, M. H. Diallo, D. Ghosh, C. T. Graves, M. Hay, X. He, P. Laud, S. Lu, A. Machanavajjhala, S. Mehrotra, G. Miklau, A. Pankova, S. Sharma, N. Venkatasubramanian, G. Wang, and R. Yus. The Journal of Defense Modeling and Simulation: Applications, Methodology, Technology, 2020.
3. A Knowledge-Based Approach to Enhance Provision of Location-Based Services in Wireless Environments. R. Yus, C. Bobed, and E. Mena, IEEE Access 8: 80030-80048, 2020. *IF: 3.745 JCR2019, Q1 Computer Science, Information Systems, Q1 Engineering, Electrical & Electronic, Q2 Telecommunications*
4. Robust Semantic Text Similarity Using LSA, Machine Learning, and Linguistic Resources. A. Kashyap, L. Han, R. Yus, J. Sleeman, T. Satyapanich, S. Gandhi, and T. Finin. Language Resources and Evaluation 50(1): 125-161, 2016. *IF: 0.738 JCR2016, Q4 Computer Science, Interdisciplinary Applications; Google h5-index 22*
5. Semantic Reasoning on Mobile Devices: Do Androids Dream of Efficient Reasoners?. C. Bobed, R. Yus, F. Bobillo, and E. Mena. Journal of Web Semantics, 2015. *IF: 2.55 JCR2014, Q1 Computer Science, Artificial Intelligence, Q1 Computer Science, Information Systems, Q1 Computer Science, Software Engineering; Google h5-index 36*
6. MultiCAMBA: System for Selecting Camera Views in Live Broadcasting of Sport Events Using a Dynamic 3D Model. R. Yus, E. Mena, S. Ilarri, A. Illarramendi, and J. Bernad. Multimedia Tools and Applications, 2015. *IF: 1.346 JCR2014, Q2 Computer Science, Information Systems, Q2 Computer Science, Software Engineering, Q2 Computer Science, Theory & Methods, Q2 Engineering, Electrical & Electronic; Google h5-index 33*
7. Real-Time Selection of Video Streams for Live TV Broadcasting Based on Query-by-Example Using a 3D Model. R. Yus, S. Ilarri, and E. Mena. Multimedia Tools and Applications, 2015. *IF: 1.346 JCR2014, Q2 Computer Science, Information Systems, Q2 Computer Science, Software Engineering, Q2 Computer Science, Theory & Methods, Q2 Engineering, Electrical & Electronic; Google h5-index 33*
8. SHERLOCK: Semantic Management of Location-Based Services in Wireless Environments. R. Yus, E. Mena, S. Ilarri, and A. Illarramendi. Pervasive and Mobile Computing, 2014. *IF: 2.079 JCR2014, Q1 Computer Science, Information Systems, Q1 Telecommunications; Google h5-index 35*
9. A Friendly Location Aware System to Facilitate the Work of Technical Directors When Broadcasting Sport Events. S. Ilarri, E. Mena, A. Illarramendi, R. Yus, M. Laka, and Gorca Marcos. Mobile Information Systems, 2012. *IF: 1.789 JCR2013, Q1 Computer Science, Information Systems, Q1 Telecommunications; Google h5-index 14*

### Book Chapters

1. Emerging Semantic-Based Applications. C. Bobed, R. Yus, F. Bobillo, S. Ilarri, J. Bernad, E. Mena, R. Trillo-Lado, and A. L. Garrido. Workman, M., Ed., Springer International Publishing, 2015.

### Peer-Reviewed Conference Poster/Demo Abstracts

1. A Privacy-Enabled Platform for COVID-19 Applications. M. August, C. Davison, M. H. Diallo, D. Ghosh, P. Gupta, C. T. Graves, S. Han, M. Holstrom, P. Khargonekar, M. Kline, S. Mehrotra, S. Sharma, N. Venkatasubramanian, G. Wang, and R. Yus. 18th ACM Conference on Embedded Networked Sensor Systems (SenSys), 2020. *A CORE2020*
2. SemIoTic: Bridging the Semantic Gap in IoT Spaces. S. Almanee, G. Bouloukakis, D. Jiang, S. Ghayyur, D. Ghosh, P. Gupta, Y. Lin, S. Mehrotra, P. Pappachan, E. J. Shin, N. Venkatasubramanian, G. Wang, and R. Yus. 6th ACM International Conference on Systems for Energy-Efficient Buildings, Cities, and Transportation (BuildSys), 2019: 352-353. *A CORE2018*
3. IoT Detective: Analyzing IoT Data Under Differential Privacy. S. Ghayyur, Y. Chen, R. Yus, A. Machanavajjhala, M. Hay, G. Miklau, and S. Mehrotra. 2018 ACM SIGMOD/PODS Conference (SIGMOD): 1725-1728, 2018. *A\* CORE2020; Google h5-index 66*
4. Cooperative Network of Mobile Agents to Remotely Process User Information Requests. R. Yus and E. Mena. 2015 IEEE/WIC/ACM International Conference on Web Intelligence (WI): 227-228, 2015. *B CORE2020; Google h5-index 18*
5. Mobile Endpoints: Accessing Dynamic Information from Mobile Devices. R. Yus and E. Mena. 14th International Semantic Web Conference (ISWC), 2015. *A CORE2020; Google h5-index 40*
6. Mobipedia: Mobile Applications Linked Data. P. Pappachan, R. Yus, P. K. Das, S. Mehrotra, T. Finin, and A. Joshi. 14th International Semantic Web Conference (ISWC), 2015. *A CORE2020; Google h5-index 40 and position*
7. Emergency Management Using SHERLOCK. R. Yus and E. Mena. 13th Annual International Conference on Mobile Systems, Applications, and Services (MobiSys), 2015. *B CORE2020; Google h5-index 49*
8. Infoboxer: Using Statistical and Semantic Knowledge to Help Create Wikipedia Infoboxes. R. Yus, V. Mulwad, T. Finin, and E. Mena. 13th International Semantic Web Conference (ISWC): 405-408, 2014. *A CORE2020; Google h5-index 40*
9. FaceBlock: Privacy-Aware Pictures for Google Glass. R. Yus, P. Pappachan, P. K. Das, E. Mena, A. Joshi, and T. Finin. 12th Annual International Conference on Mobile Systems, Applications, and Services (MobiSys), 2014. *B CORE2020; Google h5-index 49*
10. SHERLOCK: a system for location-based services in wireless environments using semantics. R. Yus, E. Mena, S. Ilarri, and A. Illarramendi. 22nd International World Wide Web Conference (WWW): 301-304, 2013. *A\* CORE2020; Google h5-index 80*
11. MultiCAMBA: A System to Assist in the Broadcasting of Sport Events. R. Yus, D. Anton, E. Mena, S. Ilarri, and A. Illarramendi. 8th International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services (MobiQuitous): 238-242, 2011. *A CORE2020; Google h5-index 12*

## Peer-Reviewed Workshop Proceedings

1. Towards Privacy-Aware Smart Buildings: Capturing, Communicating, and Enforcing Privacy Policies and Preferences. P. Pappachan, M. Degeling, R. Yus, A. Das, S. Bhagavatula, W. Melicher, P. E. Naeini, S. Zhang, L. Bauer, A. Kobsa, S. Mehrotra, N. M. Sadeh, and N. Venkatasubramanian. 7th IEEE International Conference on Distributed Computing Systems Workshops (ICDCS Workshops): 193-198, 2017.
2. Are Apps Going Semantic? A Systematic Review of Semantic Mobile Applications. R. Yus and P. Pappachan. 1st International Workshop on Mobile Deployment of Semantic Technologies (MoDeST), co-located with the 14th International Semantic Web Conference (ISWC): 2-13, 2015.
3. Building a Mobile Applications Knowledge Base for the Linked Data Cloud. P. Pappachan, R. Yus, P. K. Das, S. Mehrotra, T. Finin, and A. Joshi. 1st International Workshop on Mobile Deployment of Semantic Technologies (MoDeST), co-located with the 14th International Semantic Web Conference (ISWC): 14-25, 2015.
4. The OWL Reasoner Evaluation Goes Mobile. R. Yus, F. Bobillo, C. Bobed, and E. Mena. 4th International Workshop on OWL Reasoner Evaluation (ORE): 38-45, 2015.
5. A Semantic Context-Aware Privacy Model for FaceBlock. P. Pappachan, R. Yus, P. K. Das, T. Finin, E. Mena, and A. Joshi. 2nd International Workshop on Society, Privacy and the Semantic Web – Policy

and Technology (PrivOn), co-located with the 13th International Semantic Web Conference (ISWC), 2014.

6. Semantics for Privacy and Shared Context. R. Yus, P. Pappachan, P. K. Das, T. Finin, A. Joshi, and E. Mena. 2nd International Workshop on Society, Privacy and the Semantic Web – Policy and Technology (PrivOn), co-located with the 13th International Semantic Web Conference (ISWC), 2014.
7. Meerkat Mafia: Multilingual and Cross-Level Semantic Textual Similarity Systems. A. Kashyap, L. Han, R. Yus, J. Sleeman, T. Satyapanich, S. Ghandi, and T. Finin. 8th International Workshop on Semantic Evaluation (SemEval): 416-423, 2014. *Google h5-index 23*
8. Android Went Semantic: Time for Evaluation. C. Bobed, F. Bobillo, R. Yus, G. Estaban, and E. Mena. 3rd International Workshop on OWL Reasoner Evaluation (ORE): 23-29, 2014.
9. Android Goes Semantic: DL Reasoners on Smartphones. R. Yus, C. Bobed, G. Estaban, F. Bobillo, and E. Mena. 2nd International Workshop on OWL Reasoner Evaluation (ORE): 46-52, 2013.

## Dissertation

- Semantic Management of Location-Based Services in Wireless Environments. R. Yus, PhD Thesis, University of Zaragoza, 2016.

## INVITED TALKS

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- “(Don’t) Mind the Gap: Bridging the Worlds of People and IoT Devices”, Data Works MD, 2022.
- “(Don’t) Mind the Gap: Bridging the Worlds of People and IoT Devices”, Texas State University, 2021.
- “(Don’t) Mind the Gap: Bridging the Worlds of People and IoT Devices”, University of Maryland Baltimore County, 2021.
- “(Don’t) Mind the Gap: Bridging the Worlds of People and IoT Devices”, Purdue University, 2021.
- “(Don’t) Mind the Gap: Bridging the Worlds of People and IoT Devices”, University of Pittsburgh, 2021.
- “Reconciling Smartness and Privacy in the Internet of Things”, Postdoc Research Symposium, University of California, Irvine, 2017.
- “Defining accurate Wikipedia Infoboxes using Statistical and Semantic Knowledge”, Edit-a-thon for the visibility of women in Aragon, Zaragoza (Spain), 2015.
- “Wearable Computing: Google Glass”, Council of Computing Majors, University of Maryland, Baltimore County, 2013.

## PERSONAL BACKGROUND

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*Nationality* Spanish.  
*Languages* Spanish (Fluent), English (Fluent).

## REFERENCES

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**Prof. Sharad Mehrotra**  
University of California, Irvine,  
DBH Building 2082, Irvine, CA 92697.  
sharad@ics.uci.edu

**Prof. Nalini Venkatasubramanian**  
University of California, Irvine,  
DBH Building 2086, Irvine, CA 92697.  
nalini@uci.edu

**Prof. Anupam Joshi**  
University of Maryland, Baltimore County,  
ITE Building 325G, Baltimore, MD 21250.  
joshi@cs.umbc.edu

**Prof. Tim Finin**  
University of Maryland, Baltimore County,  
ITE Building 329, Baltimore, MD 21250.  
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