

Publication Impact

h-index: 23 (citations: >2800)

Source: Google Scholar¹

Selected publications (Citations based on Google Scholar)

Most cited Publications (Selected, >50 citations)

- [1] Danh Le-Phuoc, Minh Dao-Tran, Josiane Xavier Parreira, and Manfred Hauswirth. 2011. A native and adaptive approach for unified processing of linked streams and linked data. In Proceedings of the 10th international conference on The semantic web - Volume Part I (ISWC'11). **Citations: 385.**
- [2] Danh Le-Phuoc, Axel Polleres, Manfred Hauswirth, Giovanni Tummarello, and Christian Morbidoni. 2009. Rapid prototyping of semantic mash-ups through semantic web pipes. In Proceedings of the 18th international conference on World wide web (WWW '09). **Citations: 161.**
- [3] Michael Compton,..., Danh Le Phuoc, ...The SSN ontology of the W3C semantic sensor network incubator group. Web Semantics: Science, Services and Agents on the World Wide, 2012. **Citations: 1049.**
- [4] Danh Le-Phuoc, Minh Dao-Tran, Minh-Duc Pham, Peter Boncz, Thomas Eiter, and Michael Fink. 2012. Linked stream data processing engines: facts and figures. In Proceedings of the 11th international conference on The Semantic Web - Volume Part II (ISWC'12). **Citations: 105.**
- [5] Danh Le-Phuoc, Hoan Quoc Nguyen-Mau, Josiane Xavier Parreira, and Manfred Hauswirth. 2012. A middleware framework for scalable management of linked streams. Web Semant. 16 (November 2012). **Citations: 99.**
- [6] Danh Le-Phuoc, Hoan Nguyen Mau Quoc, Josiane Xavier Parreira, Manfred Hauswirth. The linked sensor middleware: connecting the real world and the semantic web. The Semantic Web Challenge, ISWC 2011. **Citations: 98.**
- [7] Danh Le Phuoc, Manfred Hauswirth. 2010. Linked open data in sensor data mashups. In Proceedings of International Workshop on Semantic Sensor Networks 2009. **Citations: 96**
- [8] Arne Broring, Stefan Schmid, Corina-Kim Schindhelm, Abdelmajid Khelil, Sebastian Kabisch, Denis Kramer, Danh Le Phuoc, Jelena Mitic, Darko Anicic, and Ernest Teniente. 2017. Enabling IoT Ecosystems through Platform Interoperability. IEEE Softw. 34, 1 (January 2017), Citations: 24
- [9] Danh Le-Phuoc, Josiane Xavier Parreira, Vinny Reynolds, and Manfred Hauswirth. 2010. RDF on the go: an RDF storage and query processor for mobile devices. In Proceedings of the 2010 International Conference on Posters & Demonstrations Track - Volume 658 (ISWC-PD'10). **Citations: 55**
- [10] Danh Le-Phuoc, Hoan Nguyen Mau Quoc, Chan Le Van, and Manfred Hauswirth. 2013. Elastic and Scalable Processing of Linked Stream Data in the Cloud. In Proceedings of the 12th International Semantic Web Conference - Part I (ISWC '13). **Citations: 58.**

¹<https://scholar.google.de/citations?user=7-k4HC0AAAAJ>

- [11] Lei Shu, ZhangBing Zhou, Manfred Hauswirth, Danh Le Phuoc, Peng Yu, and Lin Zhang. 2007. Transmitting streaming data in wireless multimedia sensor networks with holes. In Proceedings of the 6th international conference on Mobile and ubiquitous multimedia (MUM '07). **Citations: 52.**

Other recent publications

- [1] Danh Le Phuoc and Manfred Hauswirth. Linked Data for Internet of Everything. Book Chapter in IoT Springer Book ,2018.
- [3] The Graph of Things: A step towards the Live Knowledge Graph of connected things MH Danh Le-Phuoc, Hoan Nguyen Mau Quoc, Hung Ngo Quoc, Tuan Tran Nhat. Web Semantics: Science, Services and Agents on the World Wide Web, 2016. Citations:36
- [4] Danh Le-Phuoc. Operator-aware Approach for Boosting Performance in Processing RDF streams. Web Semantics: Science, Services and Agents on the World Wide Web, 2016. Citations: 06.
- [5] Martin Serrano, Hoan Nguyen Mau Quoc, Danh Le Phuoc, Manfred Hauswirth, John Soldatos, Nikos Kefalakis, Prem Prakash Jayaraman, Arkady Zaslavsky Defining the stack for service delivery models and interoperability in the internet of things: a practical case with OpenIoT-VDK. IEEE Journal on Selected Areas in Communications. Citations: 33. (2015)
- [6] Martin Serrano, Danh Le-Phuoc, Maciej Zaremba, Alex Galis, Sami Bhiri, Manfred Hauswirth. Real time analysis of sensor data for the Internet of Things by means of clustering and event processing. IEEE International Conference on Communications. Citations:39. (2015)
- [7] Hoan Nguyen Mau Quoc and Danh Le Phuoc. 2015. An elastic and scalable spatiotemporal query processing for linked sensor data. In Proceedings of the 11th International Conference on Semantic Systems (SEMANTICS '15). Citations: 10
- [8] HNM Quoc, M Serrano, D Le-Phuoc, M Hauswirth. Super stream collider: linked stream mashups for everyone. Reasoning Web International Summer School, 245-289, 2012. Citations: 29
- [9] D Le-Phuoc, JX Parreira, M Hauswirth. Linked stream data processing. Reasoning Web International Summer School, 245-289, 2012. Citations: 34.
- [10] Danh Le-Phuoc, Josiane Xavier Parreira, Michael Hausenblas, Yuanbo Han, and Manfred Hauswirth. 2010. Live linked open sensor database. In Proceedings of the 6th International Conference on Semantic Systems (I-SEMANTICS '10). Citations: 23.
- [11] John G Breslin, Stefan Decker, Manfred Hauswirth, Gearoid Hynes, Danh Le Phuoc, Alexandre Passant, Axel Polleres, Cornelius Rabsch, Vinny Reynolds. Integrating social networks and sensor networks. W3C Workshop on the Future of Social Networking (2009). **Citations: 43**

Full Publication list by Categories

My h-index is 23 (Google Scholar²)

Books and Book Chapters

- [1] Danh Le-Phuoc and Manfred Hauswirth. Linked data for internet of everything. In Raffaele Gravina, Carlos E. Palau, Marco Manso, Antonio Liotta, and Giancarlo Fortino, editors, *Integration, Interconnection, and Interoperability of IoT Systems*, pages 129–148, Cham, 2018. Springer International Publishing.
- [2] Danh Le-Phuoc and Manfred Hauswirth. Semantic stream processing. In Sherif Sakr and Albert Zomaya, editors, *Encyclopedia of Big Data Technologies*, pages 1–12, Cham, 2018. Springer International Publishing.
- [3] Danh Le-Phuoc, Josiane Xavier Parreira, and Manfred Hauswirth. Semantic streams. In Ling Liu and M. Tamer Özsu, editors, *Encyclopedia of Database Systems*, pages 1–6. Springer International Publishing, 2018.
- [4] Danh Le Phuoc, Josiane Xavier Parreira, and Manfred Hauswirth. Linked stream data processing. In *Reasoning Web. Semantic Technologies for Advanced Query Answering - 8th International Summer School 2012, Vienna, Austria, September 3-8, 2012. Proceedings*, pages 245–289, 2012.
- [5] Sherif Sakr, Marcin Wylot, Raghava Mutharaju, Danh Le Phuoc, and Irimi Fundulaki. *Linked Data - Storing, Querying, and Reasoning*. Springer, 2018.
- [6] Martin Serrano, Danh Le Phuoc, Maciej Zaremba, Alex Galis, Sami Bhiri, and Manfred Hauswirth. Resource optimisation in iot cloud systems by using matchmaking and self-management principles. In *The Future Internet - Future Internet Assembly 2013: Validated Results and New Horizons*, pages 127–140, 2013.

Journal Publications

- [1] Arne Bröring, Stefan Schmid, Corina-Kim Schindhelm, Abdelmajid Khelil, Sebastian Käbisch, Denis Kramer, Danh Le Phuoc, Jelena Mitic, Darko Anicic, and Ernest Teniente. Enabling iot ecosystems through platform interoperability. *IEEE Software*, 34(1):54–61, 2017.
- [2] Michael Compton, Payam M. Barnaghi, Luis Bermudez, Raul Garcia-Castro, Óscar Corcho, Simon J. D. Cox, John Graybeal, Manfred Hauswirth, Cory A. Henson, Arthur Herzog, Vincent A. Huang, Krzysztof Janowicz, W. David Kelsey, Danh Le Phuoc, Laurent Lefort, Myriam Leggieri, Holger Neuhaus, Andriy Nikolov, Kevin R. Page, Alexandre Passant, Amit P. Sheth, and Kerry Taylor. The SSN ontology of the W3C semantic sensor network incubator group. *J. Web Sem.*, 17:25–32, 2012.
- [3] Danh Le Phuoc. Operator-aware approach for boosting performance in RDF stream processing. *J. Web Sem.*, 42:38–54, 2017.
- [4] Danh Le Phuoc, Hoan Quoc Nguyen-Mau, Josiane Xavier Parreira, and Manfred Hauswirth. A middleware framework for scalable management of linked streams. *J. Web Sem.*, 16:42–51, 2012.
- [5] Danh Le Phuoc, Hoan Nguyen Mau Quoc, Hung Ngo Quoc, Tuan Tran Nhat, and Manfred Hauswirth. The graph of things: A step towards the live knowledge graph of connected things. *J. Web Sem.*, 37-38:25–35, 2016.

²<https://scholar.google.de/citations?user=7-k4HC0AAAAJ>

- [6] Martin Serrano, Hoan Nguyen Mau Quoc, Danh Le Phuoc, Manfred Hauswirth, John Soldatos, Nikos Kefalakis, Prem Prakash Jayaraman, and Arkady B. Zaslavsky. Defining the stack for service delivery models and interoperability in the internet of things: A practical case with openiot-vdk. *IEEE Journal on Selected Areas in Communications*, 33(4):676–689, 2015.
- [7] Linda van den Brink, Payam Barnaghi, Jeremy Tandy, Ghislain A. Ateazing, Rob Atkinson, Byron Cochrane, Yasmin Fathy, Raul Garcia-Castro, Armin Haller, Andreas Harth, Krzysztof Janowicz, Sefki Kolozali, Bart van Leeuwen, Maxime Lefrancois, Josh Lieberman, Andrea Perego, Danh Le Phuoc, Bill Roberts, Kerry Taylor, and Raphael Troncy. Best practices for publishing, retrieving, and using spatial data on the web. *Semantic Web*, 2018.

Conference Publications

- [1] Wolfgang Apolinarski, Marcus Handte, Danh Le Phuoc, and Pedro José Marrón. A peer-based approach to privacy-preserving context management. In *Modeling and Using Context - 7th International and Interdisciplinary Conference, CONTEXT 2011, Karlsruhe, Germany, September 26-30, 2011. Proceedings*, pages 18–25, 2011.
- [2] Daniele Dell’Aglío, Minh Dao-Tran, Jean-Paul Calbimonte, Danh Le Phuoc, and Emanuele Della Valle. A query model to capture event pattern matching in RDF stream processing query languages. In *Knowledge Engineering and Knowledge Management - 20th International Conference, EKAW 2016, Bologna, Italy, November 19-23, 2016, Proceedings*, pages 145–162, 2016.
- [3] Hugo Hromic, Danh Le Phuoc, Martin Serrano, Aleksandar Antonic, Ivana Podnar Zarko, Conor Hayes, and Stefan Decker. Real time analysis of sensor data for the internet of things by means of clustering and event processing. In *2015 IEEE International Conference on Communications, ICC 2015, London, United Kingdom, June 8-12, 2015, pages 685–691, 2015*.
- [4] Christian Morbidoni, Danh Le Phuoc, Axel Polleres, Matthias Samwald, and Giovanni Tummarello. Previewing semantic web pipes. In *The Semantic Web: Research and Applications, 5th European Semantic Web Conference, ESWC 2008, Tenerife, Canary Islands, Spain, June 1-5, 2008, Proceedings*, pages 843–848, 2008.
- [5] Danh Le Phuoc, Minh Dao-Tran, Josiane Xavier Parreira, and Manfred Hauswirth. A native and adaptive approach for unified processing of linked streams and linked data. In *The Semantic Web - ISWC 2011 - 10th International Semantic Web Conference, Bonn, Germany, October 23-27, 2011, Proceedings, Part I*, pages 370–388, 2011.
- [6] Danh Le Phuoc, Minh Dao-Tran, Minh-Duc Pham, Peter A. Boncz, Thomas Eiter, and Michael Fink. Linked stream data processing engines: Facts and figures. In *The Semantic Web - ISWC 2012 - 11th International Semantic Web Conference, Boston, MA, USA, November 11-15, 2012, Proceedings, Part II*, pages 300–312, 2012.
- [7] Danh Le Phuoc, Minh Dao-Tran, Anh Lê Tuán, Manh Nguyen Duc, and Manfred Hauswirth. RDF stream processing with CQELS framework for real-time analysis. In *Proceedings of the 9th ACM International Conference on Distributed Event-Based Systems, DEBS ’15, Oslo, Norway, June 29 - July 3, 2015, pages 285–292, 2015*.
- [8] Danh Le Phuoc, Josiane Xavier Parreira, Michael Hausenblas, Yuanbo Han, and Manfred Hauswirth. Live linked open sensor database. In *Proceedings the 6th International Conference on Semantic Systems, I-SEMANTICS 2010, Graz, Austria, September 1-3, 2010, 2010*.

- [9] Danh Le Phuoc, Axel Polleres, Manfred Hauswirth, Giovanni Tummarello, and Christian Morbidoni. Rapid prototyping of semantic mash-ups through semantic web pipes. In *Proceedings of the 18th International Conference on World Wide Web, WWW 2009, Madrid, Spain, April 20-24, 2009*, pages 581–590, 2009.
- [10] Danh Le Phuoc, Hoan Nguyen Mau Quoc, Chan Le Van, and Manfred Hauswirth. Elastic and scalable processing of linked stream data in the cloud. In *The Semantic Web - ISWC 2013 - 12th International Semantic Web Conference, Sydney, NSW, Australia, October 21-25, 2013, Proceedings, Part I*, pages 280–297, 2013.
- [11] Danh Le Phuoc, Anh Lê Tuán, Gregor Schiele, and Manfred Hauswirth. Querying heterogeneous personal information on the go. In *The Semantic Web - ISWC 2014 - 13th International Semantic Web Conference, Riva del Garda, Italy, October 19-23, 2014. Proceedings, Part II*, pages 454–469, 2014.
- [12] Hoan Nguyen Mau Quoc and Danh Le Phuoc. An elastic and scalable spatiotemporal query processing for linked sensor data. In *Proceedings of the 11th International Conference on Semantic Systems, SEMANTICS 2015, Vienna, Austria, September 15-17, 2015*, pages 17–24, 2015.
- [13] Lei Shu, ZhangBing Zhou, Manfred Hauswirth, Danh Le Phuoc, Peng Yu, and Lin Zhang. Transmitting streaming data in wireless multimedia sensor networks with holes. In *Proceedings of the 6th International Conference on Mobile and Ubiquitous Multimedia, MUM 2007, Oulu, Finland, December 12-14, 2007*, pages 24–33, 2007.

Workshop Publications

- [1] Minh Dao-Tran and Danh Le Phuoc. Towards enriching CQELS with complex event processing and path navigation. In *Proceedings of the 1st Workshop on High-Level Declarative Stream Processing co-located with the 38th German AI conference (KI 2015), Dresden, Germany, September 22, 2015.*, pages 2–14, 2015.
- [2] Danh Le-Phuoc. Adaptive optimisation for continuous multi-way joins over rdf streams. In *Companion Proceedings of the The Web Conference 2018, WWW '18*, pages 1857–1865, Republic and Canton of Geneva, Switzerland, 2018. International World Wide Web Conferences Steering Committee.
- [3] Danh Le Phuoc and Manfred Hauswirth. Linked open data in sensor data mashups,. In *Proceedings of the 2nd International Workshop on Semantic Sensor Networks (SSN09), collocated with the 8th International Semantic Web Conference (ISWC-2009), Washington DC, USA, October 26, 2009.*, pages 1–16, 2009.
- [4] Danh Le Phuoc, Josiane Xavier Parreira, and Manfred Hauswirth. Challenges in linked stream data processing: A position paper. In *Proceedings of the 3rd International Workshop on Semantic Sensor Networks, SSN 2010, Shanghai, China, November 7, 2010*, 2010.
- [5] Mahmudur Rahman Saniat, Hoan Nguyen Mau Quoc, Huy Le Van, Danh Le Phuoc, Martin Serrano, and Manfred Hauswirth. Autonomic frameworks deployment using configuration and service delivery models for the internet of things. In *Interoperability and Open-Source Solutions for the Internet of Things - International Workshop, FP7 OpenIoT Project, Held in Conjunction with SoftCOM 2014, Split, Croatia, September 18, 2014. Invited Papers*, pages 89–102, 2014.

Posters & Demos

- [1] Danh Le-Phuoc Manfred Hauswirth Hoan Nguyen Mau Quoc, Martin Serrano. Super stream collider: linked stream mashups for everyone. In *Proceedings of the Semantic Web Challenge co-located with ISWC2012*, 2012.
- [2] Danh Le Phuoc. Sensormasher - publishing and building mashup of sensor data. In *5th International Conference on Semantic Systems, Graz, Austria, September 2-4, 2009. Proceedings*, 2009.
- [3] Danh Le Phuoc, Josiane Xavier Parreira, Vinny Reynolds, and Manfred Hauswirth. RDF on the go: RDF storage and query processor for mobile devices. In *Proceedings of the ISWC 2010 Posters & Demonstrations Track: Collected Abstracts, Shanghai, China, November 9, 2010*, 2010.
- [4] Danh Le Phuoc, Hoan Nguyen Mau Quoc, Hung Ngo Quoc, Tuan Tran Nhat, and Manfred Hauswirth. Enabling Live Exploration on The Graph of Things (<http://graphofthings.org>). In *Semantic Web Challenge 2014 in conjunction with the 13th International Semantic Web Conference, Riva del Garda, Italy, October 19-23, 2014*, 2014.

Tutorials

- [1] Minh Dao-Tran Marcin Wylot Danh Le Phuoc, Adrian Paschke. Semantic Event Reasoning and Rule-based Complex Event Processing. Tutorial at the RuleML+RR: International Joint Conference on Rules and Reasoning 2017, London, UK.
- [2] Danh Le Phuoc, Josiane Xavier Parreira, and Manfred Hauswirth. Linked Stream Data Processing. Lecture at the Reasoning Web Summer School, September, 2012, Vienna, Austria.
- [3] Danh Le Phuoc, Josiane Xavier Parreira, and Manfred Hauswirth. Linked Stream Data Processing. Tutorial at the 22nd International World Wide Web Conference, May 13-17, 2013, Rio de Janeiro, Brazil.

Technical Reports

- [1] Giovanni Tummarello Danh Le Phuoc Christian Morbidoni, Axel Polleres. Semantic web pipes. Technical report, DERI Technical Report, Nov, 2007, 2007.
- [2] Danh Le-Phuoc, Josiane Xavier Parreira, Michael Hausenblas, and Manfred Hauswirth. Continuous Query Optimization and Evaluation over Unified Linked Stream Data and Linked Open Data. Technical report, DERI Technical Report, Sep 27, 2010, 2010.