

## Pierre Senellart's Publications

### Book

- [1] Serge Abiteboul, Ioana Manolescu, Marie-Christine Rousset, Philippe Rigaux, and Pierre Senellart. *Web Data Management*. Cambridge University Press, New York, USA, January 2012.

### Book chapters (peer-reviewed)

- [1] Thomas Risse, Wim Peters, Pierre Senellart, and Diana Maynard. Documenting Contemporary Society by Preserving Relevant Information from Twitter. In Katrin Weller, Axel Bruns, Jean Burgess, Merja Mahrt, and Cornelius Puschmann, editors, *Twitter and Society*, pages 207–219. Peter Lang International Academic Publishers, November 2013.
- [2] Evgeny Kharlamov and Pierre Senellart. Modeling, Querying, and Mining Uncertain XML Data. In Andrea Tagarelli, editor, *XML Data Mining: Models, Methods, and Applications*, pages 29–52. IGI Global, November 2011.

### Book chapters (without peer review)

- [1] Pierre Senellart. Archivage du Web. In Mokrane Bouzhegoub and Rémy Mosseri, editors, *Les Big Data à découvert*, pages 200–201. CNRS Éditions, March 2017.
- [2] Benny Kimelfeld and Pierre Senellart. Probabilistic XML: Models and Complexity. In Zongmin Ma and Li Yan, editors, *Advances in Probabilistic Databases for Uncertain Information Management*, pages 39–66. Springer-Verlag, May 2013.
- [3] Michael Benedikt and Pierre Senellart. Databases. In Edward K. Blum and Alfred V. Aho, editors, *Computer Science. The Hardware, Software and Heart of It*, pages 169–229. Springer-Verlag, January 2012.
- [4] Pierre Senellart and Vincent D. Blondel. Automatic discovery of similar words. In Michael W. Berry and Malu Castellanos, editors, *Survey of Text Mining II: Clustering, Classification and Retrieval*, pages 25–44. Springer-Verlag, January 2008.
- [5] Pierre Senellart and Vincent D. Blondel. Automatic discovery of similar words. In Michael W. Berry, editor, *Survey of Text Mining: Clustering, Classification and Retrieval*, pages 25–43. Springer-Verlag, August 2003.

### Journal articles (peer-reviewed)

- [1] Sihem Amer-Yahia, Senjuti Basu Roy, Lei Chen, Atsuyuki Morishima, James Abello Monedero, Pierre Bourhis, François Charoy, Marina Danilevsky, Gautam Das, Gianluca Demartini, Shady Elbassuoni, David Gross-Amblard, Emilie Hoareau, Munenari Inoguchi, Jared Kenworthy, Itaru Kitahara, Dongwon Lee, Yunyao Li, Ria Mae Borromeo, Paolo Papotti, Raghav Rao, Sudeepa Roy, Pierre Senellart, Keishi Tajima, Saravanan Thirumuruganathan, Marion Tommasi, Kazutoshi Umemoto, Andrea Wiggins, and Koichiro

- Yoshida. Making AI Machines Work for Humans in FoW. *SIGMOD Record*, 49(2):30–35, December 2020.
- [2] Antoine Amarilli, Florent Capelli, Mikaël Monet, and Pierre Senellart. Connecting Knowledge Compilation Classes and Width Parameters. *Theory of Computing Systems*, 64(5):861–914, 2020. Also CoRR abs/1811.02944.
- [3] Michael Benedikt, Pierre Bourhis, Georg Gottlob, and Pierre Senellart. Monadic Datalog, Tree Validity, and Limited Access Containment. *ACM Transactions on Computational Logic*, 21(1):6:1–6:45, 2020.
- [4] Antoine Amarilli, Pierre Bourhis, Mikaël Monet, and Pierre Senellart. Evaluating Datalog via Tree Automata and Cycluits. *Theory of Computing Systems*, 63(7):1620–1678, 2019. Also CoRR abs/1808.04663.
- [5] Antoine Amarilli, M. Lamine Ba, Daniel Deutch, and Pierre Senellart. Computing Possible and Certain Answers over Order-Incomplete Data. *Theoretical Computer Science*, 797:42–76, 2019. Also CoRR abs/1801.06396.
- [6] Silviu Maniu, Reynold Cheng, and Pierre Senellart. An Indexing Framework for Queries on Probabilistic Graphs. *ACM Transactions on Database Systems*, 42(2):13:1–13:34, May 2017.
- [7] Debabrota Basu, Qian Lin, Weidong Chen, Hoang Tam Vo, Zihong Yuan, Pierre Senellart, and Stéphane Bressan. Regularized Cost-Model Oblivious Database Tuning with Reinforcement Learning. *Transactions on Large-Scale Data and Knowledge-Centered Systems*, 28:96–132, 2016.
- [8] Ruiming Tang, Antoine Amarilli, Pierre Senellart, and Stéphane Bressan. A Framework for Sampling-Based XML Data Pricing. *Transactions on Large-Scale Data and Knowledge-Centered Systems*, 24:116–138, 2016.
- [9] Serge Abiteboul, Yael Amsterdamer, Daniel Deutch, Tova Milo, and Pierre Senellart. Optimal Probabilistic Generation of XML Documents. *Theory of Computing Systems*, 57(4):806–842, November 2015.
- [10] Thomas Risse, Elena Demidova, Stefan Dietze, Wim Peters, Nikos Papailiou, Katerina Doka, Yannis Stavarakas, Vassilis Plachouras, Pierre Senellart, Florent Carpentier, Amin Mantrach, Bogdan Cautis, Patrick Siehndel, and Dimitris Spiliotopoulos. The ARCOMEM Architecture for Social and Semantic Driven Web Archiving. *Future Internet*, 6(4):688–716, November 2014.
- [11] Vassilis Plachouras, Florent Carpentier, Muhammad Faheem, Julien Masanès, Thomas Risse, Pierre Senellart, Patrick Siehndel, and Yannis Stavarakas. ARCOMEM Crawling Architecture. *Future Internet*, 6(3):518–541, August 2014.
- [12] Muhammad Faheem and Pierre Senellart. Crawl intelligent et adaptatif d’applications Web pour l’archivage du Web. *Ingénierie des Systèmes d’Information*, 19(4):61–86, 2014.

- [13] M. Lamine Ba, Talel Abdesslem, and Pierre Senellart. Gestion de versions incertaines de documents XML. *Ingénierie des Systèmes d'Information*, 19(4):9–34, 2014.
- [14] Fabian M. Suchanek, Serge Abiteboul, and Pierre Senellart. PARIS: Probabilistic Alignment of Relations, Instances, and Schema. *Proceedings of the VLDB Endowment*, 5(3):157–168, December 2011. Presented at the VLDB 2012 conference, Istanbul, Turkey. Also CoRR abs/1111.7164.
- [15] Benjamin Nguyen, Antoine Vion, François-Xavier Dudouet, Dario Colazzo, Ioana Manolescu, and Pierre Senellart. XML Content Warehousing: Improving Sociological Studies of Mailing Lists and Web Data. *Bulletin of Sociological Methodology*, 112(1):5–31, October 2011. Also CoRR abs/1108.4596.
- [16] Serge Abiteboul, T-H. Hubert Chan, Evgeny Kharlamov, Werner Nutt, and Pierre Senellart. Capturing Continuous Data and Answering Aggregate Queries in Probabilistic XML. *ACM Transactions on Database Systems*, 36(4), 2011.
- [17] Michael Benedikt, Evgeny Kharlamov, Dan Olteanu, and Pierre Senellart. Probabilistic XML via Markov Chains. *Proceedings of the VLDB Endowment*, 3(1):770–781, September 2010. Presented at the VLDB 2010 conference, Singapore.
- [18] Georg Gottlob and Pierre Senellart. Schema Mapping Discovery from Data Instances. *Journal of the ACM*, 57(2), January 2010.
- [19] Serge Abiteboul, Benny Kimelfeld, Yehoshua Sagiv, and Pierre Senellart. On the Expressiveness of Probabilistic XML Models. *VLDB Journal*, 18(5):1041–1064, October 2009.
- [20] Vincent D. Blondel, Anahí Gajardo, Maureen Heymans, Pierre Senellart, and Paul Van Dooren. A measure of similarity between graph vertices: applications to synonym extraction and Web searching. *SIAM Review*, 46(4):647–666, 2004. Also CoRR cs.IR/0407061.

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- [1] Pierre Senellart. Provenance and Probabilities in Relational Databases: From Theory to Practice. *SIGMOD Record*, 46(4), December 2017.
- [2] Antoine Amarilli, Silviu Maniu, and Pierre Senellart. Intensional Data on the Web. *SIGWEB Newsletter*, August 2015.
- [3] Reynold Cheng, Silviu Maniu, and Pierre Senellart. Guest Editorial: Special Issue on Databases and Crowdsourcing. *Distributed and Parallel Databases*, 33(1):1–2, March 2015.
- [4] Serge Abiteboul and Pierre Senellart. Un déluge de données. *Pour la science*, 433:32–35, November 2013.
- [5] Richi Nayak, Pierre Senellart, Fabian M. Suchanek, and Aparna Varde. Discovering Interesting Information with Advances in Web Technology. *SIGKDD Explorations*, 14(2):63–81, December 2012.

- [6] Marc Bourreau, François Moreau, and Pierre Senellart. La diversité culturelle dans l'industrie de la musique enregistrée en France (2003-2008). *Publications du Département des études, de la prospective et des statistiques*, 5, October 2011.
- [7] Clément Genzmer, Volker Hudlet, Hyunjung Park, Daniel Schall, and Pierre Senellart. The SIGMOD 2010 Programming Contest: A Distributed Query Engine. *SIGMOD Record*, 39(2):61–64, June 2010.
- [8] Talel Abdesslem and Pierre Senellart. Gestion de données dans les réseaux sociaux. *Telecom*, 156:56–58, January 2010.
- [9] Stefan Manegold, Ioana Manolescu, Loredana Afanasiev, Jianlin Feng, Gang Gou, Marios Hadjieleftheriou, Stavros Harizopoulos, Panos Kalnis, Konstantinos Karanasos, Dominique Laurent, Mihai Lupu, Nicola Onose, Christopher Ré, Virginie Sans, Pierre Senellart, Tianyi Wu, and Dennis Shasha. Repeatability & Workability Evaluation of SIGMOD 2009. *SIGMOD Record*, 38(3):40–43, September 2009.
- [10] Ioana Manolescu, Loredana Afanasiev, Andrei Arion, Jens-Peter Dittrich, Stefan Manegold, Neoklis Polyzotis, Karl Schnaitter, Pierre Senellart, Spyros Zoupanos, and Dennis Shasha. The repeatability experiment of SIGMOD 2008. *SIGMOD Record*, 37(1):39–45, March 2008.
- [11] Pierre Senellart, Serge Abiteboul, and Rémi Gilleron. Understanding the Hidden Web. *ERCIM News*, 72:32–33, January 2008.

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- [1] Angelo Saadeh, Pierre Senellart, and Stéphane Bressan. Confidential Truth Finding with Multi-Party Computation. In *Proc. DEXA*, Penang, Malaysia, August 2023.
- [2] Antoine Gauquier and Pierre Senellart. Automatically Inferring the Document Class of a Scientific Article. In *Proc. DocEng*, Limerick, Ireland, August 2023.
- [3] Yann Ramusat, Silviu Maniu, and Pierre Senellart. Efficient Provenance-Aware Querying of Graph Databases with Datalog. In *Proc. BDA*, Clermont-Ferrand, France, October 2022.
- [4] Shrey Mishra, Lucas Pluvineau, and Pierre Senellart. Towards Extraction of Theorems and Proofs in Scholarly Articles. In *Proc. DocEng*, Limerick, Ireland, August 2021.
- [5] Yann Ramusat, Silviu Maniu, and Pierre Senellart. Provenance-Based Algorithms for Rich Queries over Graph Databases. In *Proc. EDBT*, pages 73–84, Nicosia, Cyprus, March 2021.
- [6] Yann Ramusat, Silviu Maniu, and Pierre Senellart. Algorithmes à base de provenance pour des requêtes enrichies sur les bases de données graphes. In *Proc. BDA*, online, France, October 2020.

- [7] Ashish Dandekar, Debabrota Basu, Pierre Senellart, and Stéphane Bressan. Confidentialité différentielle à risque : Relier les sources d'aléa et un budget de confidentialité. In *Proc. BDA*, online, France, October 2020.
- [8] Pierre Senellart. Provenance in Databases: Principles and Applications. In *Proc. RW*, pages 104–109, Bolzano, Italy, September 2019.
- [9] Debabrota Basu, Pierre Senellart, and Stéphane Bressan. BelMan: Bayesian Bandits on the Belief–Reward Manifold. In *Proc. ECML/PKDD*, pages 167–183, Würzburg, Germany, September 2019.
- [10] Silviu Maniu, Pierre Senellart, and Suraj Jog. An Experimental Study of the Treewidth of Real-World Graph Data. In *Proc. ICDT*, pages 12:1–12:18, Lisbon, Portugal, March 2019.
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- [13] Miyoung Han, Pierre-Henri Wuillemin, and Pierre Senellart. Focused Crawling through Reinforcement Learning. In *Proc. ICWE*, pages 261–278, Cáceres, Spain, June 2018.
- [14] Ben Spencer, Michael Benedikt, and Pierre Senellart. Form Filling based on Constraint Solving. In *Proc. ICWE*, pages 95–113, Cáceres, Spain, June 2018.
- [15] Antoine Amarilli, Mikaël Monet, and Pierre Senellart. Connecting Width and Structure in Knowledge Compilation. In *Proc. ICDT*, Vienna, Austria, March 2018.
- [16] Antoine Amarilli, M. Lamine Ba, Daniel Deutch, and Pierre Senellart. Possible and Certain Answers for Queries over Order-Incomplete Data. In *Proc. TIME*, pages 4:1–4:19, Mons, Belgium, October 2017.
- [17] Antoine Amarilli, Mikaël Monet, and Pierre Senellart. Conjunctive Queries on Probabilistic Graphs: Combined Complexity. In *Proc. PODS*, pages 217–232, Chicago, USA, May 2017. Also CoRR abs/1703.03201.
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- [19] Antoine Amarilli, Yael Amsterdamer, Tova Milo, and Pierre Senellart. Top-k Queries on Unknown Values under Order Constraints. In *Proc. ICDT*, pages 5:1–5:18, Venice, Italy, March 2017.
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- [21] Miyoung Han, Pierre Senellart, Stéphane Bressan, and Huayu Wu. Routing an Autonomous Taxi with Reinforcement Learning. In *Proc. CIKM*, Indianapolis, USA, October 2016. Industry track, short paper.
- [22] Antoine Amarilli, Pierre Bourhis, and Pierre Senellart. Tractable Lineages on Treelike Instances: Limits and Extensions. In *Proc. PODS*, pages 355–370, San Francisco, USA, June 2016.
- [23] Muhammad Faheem and Pierre Senellart. Adaptive Web Crawling through Structure-Based Link Classification. In *Proc. ICADL*, pages 39–51, Seoul, South Korea, December 2015.
- [24] David Montoya, Serge Abiteboul, and Pierre Senellart. Hup-Me: Inferring and Reconciling a Timeline of User Activity with Smartphone and Personal Data. In *Proc. SIGSPATIAL*, Seattle, USA, November 2015. Short paper.
- [25] Antoine Amarilli, M. Lamine Ba, Daniel Deutch, and Pierre Senellart. Requête sur des données à ordre incomplet. In *Proc. BDA*, Porquerolles, France, September 2015. Conference without formal proceedings.
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- [27] Debabrota Basu, Qian Lin, Zihong Yuan, Pierre Senellart, and Stéphane Bressan. Apprentissage par renforcement pour optimiser les bases de données indépendamment du modèle de coût. In *Proc. BDA*, Porquerolles, France, September 2015. Conference without formal proceedings.
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- [29] Siyu Lei, Silviu Maniu, Luyi Mo, Reynold Cheng, and Pierre Senellart. Online Influence Maximization. In *Proc. KDD*, pages 645–654, Sydney, Australia, August 2015.
- [30] Antoine Amarilli, Pierre Bourhis, and Pierre Senellart. Provenance Circuits for Trees and Treelike Instances. In *Proc. ICALP*, pages 56–68, Kyoto, Japan, July 2015.
- [31] Changping Meng, Reynold Cheng, Silviu Maniu, Pierre Senellart, and Wangda Zhang. Discovering Meta-Paths in Large Heterogeneous Information Networks. In *Proc. WWW*, pages 754–764, Florence, Italy, May 2015.
- [32] Georges Gouriten, Silviu Maniu, and Pierre Senellart. Scalable, Generic, and Adaptive Systems for Focused Crawling. In *Proc. Hypertext*, pages 35–45, Santiago, Chile, September 2014. Douglas Engelbart Best Paper Award.
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- [34] Muhammad Faheem and Pierre Senellart. Collecte intelligente et adaptative d'applications Web pour l'archivage du Web. In *Proc. BDA*, Nantes, France, October 2013. Conference without formal proceedings.
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- [39] Muhammad Faheem and Pierre Senellart. Intelligent and Adaptive Crawling of Web Applications for Web Archiving. In *Proc. ICWE*, pages 306–322, Aalborg, Denmark, July 2013.
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- [49] Serge Abiteboul, Yael Amsterdamer, Daniel Deutch, Tova Milo, and Pierre Senellart. Optimal Probabilistic Generators for XML Corpora. In *Proc. BDA*, Rabat, Morocco, October 2011. Conference without formal proceedings.
- [50] Michael Benedikt, Georg Gottlob, and Pierre Senellart. Determining Relevance of Accesses at Runtime. In *Proc. PODS*, pages 211–222, Athens, Greece, June 2011.
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- [53] Serge Abiteboul, T-H. Hubert Chan, Evgeny Kharlamov, Werner Nutt, and Pierre Senellart. Agrégation de documents XML probabilistes. In *Proc. BDA*, Namur, Belgium, October 2009. Conference without formal proceedings.
- [54] Alban Galland, Serge Abiteboul, Amélie Marian, and Pierre Senellart. Corroboration de vues discordantes fondées sur la confiance. In *Proc. BDA*, Namur, Belgium, October 2009. Conference without formal proceedings.
- [55] Pierre Senellart and Georg Gottlob. On the Complexity of Deriving Schema Mappings from Database Instances. In *Proc. PODS*, pages 23–32, Vancouver, Canada, June 2008.
- [56] Yann Ollivier and Pierre Senellart. Finding Related Pages Using Green Measures: An Illustration with Wikipedia. In *Proc. AAAI*, pages 1427–1433, Vancouver, Canada, July 2007.
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- [58] Serge Abiteboul and Pierre Senellart. Querying and Updating Probabilistic Information in XML. In *Proc. EDBT*, pages 1059–1068, Munich, Germany, March 2006. Short paper.
- [59] François-Xavier Dudouet, Ioana Manolescu, Benjamin Nguyen, and Pierre Senellart. XML Warehousing Meets Sociology. In *Proc. IADIS ICWI*, pages 170–174, Lisbon, Portugal, October 2005.



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- [61] Pierre Senellart. Identifying Websites with Flow Simulation. In *Proc. ICWE*, pages 124–129, Sydney, Australia, July 2005.

#### **Conference articles (without peer review)**

- [1] Pierre Senellart. Probabilistic Models for Uncertain Data. In *Proc. SoICT*, pages 10–10, Da Nang, Vietnam, December 2013.
- [2] Fabian M. Suchanek, Aparna Varde, Richi Nayak, and Pierre Senellart. The Hidden Web, XML and the Semantic Web: Scientific Data Management Perspectives. In *Proc. EDBT*, pages 534–537, Uppsala, Sweden, March 2011. Tutorial. Also CoRR abs/1105.1929.
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- [4] Pierre Senellart and Jean Senellart. SYSTRAN Translation Stylesheets: Machine Translation driven by XSLT. In *Proc. XML Conference & Exposition*, Atlanta, USA, November 2005.

#### **Workshop articles (peer-reviewed)**

- [1] Shufan Jiang and Pierre Senellart. Extracting Definienda in Mathematical Scholarly Articles with Transformers. In *Proc. WIESP*, online, Indonesia, November 2023.
- [2] Yann Ramusat, Silviu Maniu, and Pierre Senellart. Efficient Provenance-Aware Querying of Graph Databases with Datalog. In *Proc. GRADES-NDA*, Philadelphia, USA, June 2022.
- [3] Yann Ramusat, Silviu Maniu, and Pierre Senellart. Semiring Provenance over Graph Databases. In *Proc. TaPP*, London, United Kingdom, July 2018.
- [4] David Montoya, Thomas Pellissier Tanon, Serge Abiteboul, Pierre Senellart, and Fabian M. Suchanek. A Knowledge Base for Personal Information Management. In *Proc. LDOW*, Lyon, France, April 2018.
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- [7] Marilena Oita and Pierre Senellart. FOREST: Focused Object Retrieval by Exploiting Significant Tag Paths. In *Proc. WebDB*, pages 55–61, Melbourne, Australia, May 2015.

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- [9] M. Lamine Ba, Talel Abdesslem, and Pierre Senellart. Merging Uncertain Multi-Version XML Documents. In *Proc. DChanges*, Florence, Italy, September 2013.
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- [11] Marilena Oita, Antoine Amarilli, and Pierre Senellart. Cross-Fertilizing Deep Web Analysis and Ontology Enrichment. In *Proc. VLDS*, pages 5–8, Istanbul, Turkey, August 2012. Vision article.
- [12] Meghyn Bienvenu, Daniel Deutch, Davide Martinenghi, Pierre Senellart, and Fabian M. Suchanek. Dealing with the Deep Web and all its Quirks. In *Proc. VLDS*, pages 21–24, Istanbul, Turkey, August 2012. Vision article.
- [13] M. Lamine Ba, Talel Abdesslem, and Pierre Senellart. Towards a Version Control Model with Uncertain Data. In *Proc. PIKM*, Glasgow, United Kingdom, October 2011.
- [14] Marilena Oita and Pierre Senellart. Deriving Dynamics of Web Pages: A Survey. In *Proc. TAWW*, pages 25–32, Hyderabad, India, March 2011.
- [15] Evgeny Kharlamov, Werner Nutt, and Pierre Senellart. Value Joins are Expensive over (Probabilistic) XML. In *Proc. LID*, pages 41–48, Uppsala, Sweden, March 2011.
- [16] Marilena Oita and Pierre Senellart. Archiving Data Objects Using Web Feeds. In *Proc. IAWW*, pages 31–41, Vienna, Austria, September 2010.
- [17] Evgeny Kharlamov, Werner Nutt, and Pierre Senellart. Updating Probabilistic XML. In *Proc. Updates in XML*, Lausanne, Switzerland, March 2010.
- [18] Serge Abiteboul, Sihem Amer-Yahia, Amélie Marian, Alban Galland, and Pierre Senellart. Birds of a tag flock together. In *Proc. SSM*, New York, USA, February 2010. Workshop without formal proceedings.
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### **Workshop articles (without peer review)**

- [1] Pierre Senellart. Disseminate your Research: Style Does Matter. In *Proc. PIKM*, San Francisco, USA, November 2013.
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### **Demonstrations (peer-reviewed)**

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