

# Publication List

**Eero Hyvönen**

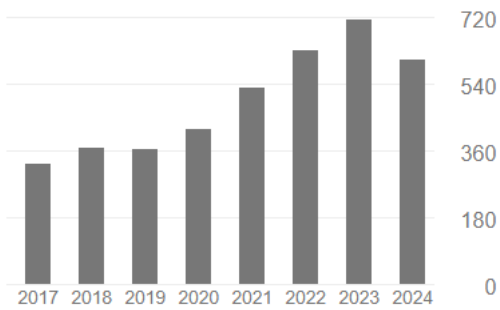
Papers available online: <https://seco.cs.aalto.fi/u/eahyvone/publications/index.php>

Google Scholar h-index **43**, since 2019 **26**

Total number of items: **625**

Cited by [VIEW ALL](#)

|           | All  | Since 2019 |
|-----------|------|------------|
| Citations | 8368 | 3299       |
| h-index   | 43   | 26         |
| i10-index | 186  | 84         |



## Contents

|     |  |    |
|-----|--|----|
| A.  | Peer Reviewed Scientific Papers .....                        | 3  |
| A.1 | Journals .....   | 3  |
| A.2 | Book Chapters .....  | 7  |
| A.3 | Conferences .....  | 9  |
| B.  | Scientific Papers without Peer Review .....                  | 41 |
| C.  | Monographs .....   | 45 |
| C.1 | Text Books .....   | 45 |
| C.2 | Translated Versions .....                                    | 46 |
| C.3 | Edited Proceedings Volumes .....                             | 46 |
| C.4 | Special Issues of Journals .....                             | 47 |
| D.  | Publications for Professional Audience .....                 | 48 |
| D.1 | System Descriptions, Manuals .....                           | 48 |
| D.2 | Publications in Institutional Series and Organizations ..... | 48 |
| D.3 | Seminar Papers .....   | 50 |
| D.4 | Articles in Professional Magazines .....                     | 51 |
| E.  | Publications for the General Public .....                    | 54 |
| F.  | Public Artistic Activities .....                             | 54 |
| G.  | Theses .....   | 54 |
| H.  | Patents and Innovation Notifications .....                   | 55 |
| I.  | Audiovisual Contents and ICT Software .....                  | 55 |

## A. Peer Reviewed Scientific Papers

### A.1 Journals

1. Annastiina Ahola, Telma Peura, Eero Hyvönen: Using Linked Data for Data Analytic Literary Research: Case BookSampo - Finnish Fiction Literature on the Semantic Web. May, 2024. Submitted for review.
2. Michael Lewis, Eljas Oksanen, Frida Ehrnsten, Heikki Rantala, Jouni Tuominen and Eero Hyvönen: The Impact of Human Decision-making on the Research Value of Archaeological Data. June, 2024. Submitted for evaluation.
3. Petri Leskinen, Javier Ureña-Carrion, Jouni Tuominen, Mikko Kivelä, Eero Hyvönen: Knowledge Graphs and Data Services for Studying Historical Epistolary Data in Network Science on the Semantic Web. Semantic Web, IOS Press, 2024. Under open review.
4. Eero Hyvönen, Laura Sinikallio, Petri Leskinen, Senka Drobac, Rafael Leal, Matti La Mela, Jouni Tuominen, Henna Poikkimäki and Heikki Rantala: Publishing and Using Parliamentary Linked Data on the Semantic Web: ParliamentSampo System for Parliament of Finland. Semantic Web, October, 2024. In print.
5. Eero Hyvönen: How to Create a National Cross-domain Ontology and Linked Data Infrastructure and Use It on the Semantic Web. Semantic Web – Interoperability, Usability, Applicability. DOI: 10.3233/SW-243468.
6. Mehwish Alam, Victor de Boer, Enrico Daga, Marieke van Erp, Eero Hyvönen and Albert Meroño-Peñuela: Editorial of Special Issue on Cultural Heritage and Semantic Web. Semantic Web - Interoperability, Usability, Applicability, vol. 14, no. 2, pp. 155-158, 2023.
7. Henna Poikkimäki, Petri Leskinen and Eero Hyvönen: Applying Network and Bibliometric Analyses to Mentions of Politicians in Plenary Speeches: Case ParliamentSampo - Parliament of Finland on the Semantic Web. August, 2023. Submitted for evaluation.
8. Eljas Oksanen, Frida Ehrnsten, Heikki Rantala and Eero Hyvönen: Semantic Solutions for Democratising Archaeological and Numismatic Data Analysis. Journal on Computing and Cultural Heritage, 2024.
9. Minna Tamper, Petri Leskinen, Eero Hyvönen, Risto Valjus and Kirsi Keravuori: Analyzing Biography Collection Historiographically as Linked Data: Case National Biography of Finland. Semantic Web – Interoperability, Usability, Applicability, vol. 14, no. 2, pp. 385-419, IOS Press, 2023.
10. Eero Hyvönen, Petri Leskinen and Jouni Tuominen: LetterSampo – Historical Letters on the Semantic Web: A Framework and Its Application to Publishing and Using Epistolary Data of the Republic of Letters. Journal on Computing and Cultural Heritage, vol. 16, no. 1, 2023.
11. Toby Burrows, Laura Cleaver, Doug Emery, Eero Hyvönen, Mikko Koho, Lynn Ransom, Emma Thomson and Hanno Wijsman: Medieval manuscripts and their migrations: Using SPARQL to investigate the research potential of an aggregated Knowledge Graph. Digital Medievalist, vol. 15, 2022.

12. Eero Hyvönen: Digital Humanities on the Semantic Web: Sampo Model and Portal Series. *Semantic Web – Interoperability, Usability, Applicability*, vol. 14, no. 4, pp. 729-744, IOS Press, 2023.
13. Petri Leskinen, Javier Ureña-Carrion, Petri Leskinen, Jouni Tuominen, Mikko Kivelä and Eero Hyvönen: Knowledge Graphs and Data Services for Studying Historical Epistolary Data in Network Science on the Semantic Web. May, 2022. *Semantic Web Journal*, Submitted for review, 2022.
14. Eero Hyvönen and Heikki Rantala: Knowledge-based Relational Search in Cultural Heritage Linked Data. *Digital Scholarship in the Humanities (DSH)*, Oxford University Press. 2021.
15. Marcia Zeng, Chris Sula, Karen Gracy, Eero Hyvönen and Vania Mara Alves Lima: JASIST Special Issue on Digital Humanities (DH) Introduction. *Journal of the Association for Information Science and Technology (JASIST)*, September, 2021.
16. Eero Hyvönen, Heikki Rantala, Esko Ikkala, Mikko Koho, Jouni Tuominen, Babatunde Anafi, Suzie Thomas, Anna Wessman, Eljas Oksanen, Ville Rohiola, Jutta Kuitunen and Minna Ryyppö: Citizen Science Archaeological Finds on the Semantic Web: The FindSampo Framework. *Antiquity, A Review of World Archaeology*, 2021.
17. Heikki Rantala, Esko Ikkala, Ilkka Jokipii, Mikko Koho, Jouni Tuominen and Eero Hyvönen: WarVictimSampo 1914–1922: a National War Memorial on the Semantic Web for Digital Humanities Research and Applications. *ACM Journal on Computing and Cultural Heritage*, 2021. Accepted
18. Mikko Koho, Toby Burrows, Eero Hyvönen, Esko Ikkala, Kevin Page, Lynn Ransom, Jouni Tuominen, Doug Emery, Mitch Fraas, Benjamin Heller, David Lewis, Andrew Morrison, Guillaume Porte, Emma Thomson, Athanasios Velios and Hanno Wijnsman: Harmonizing and Publishing Heterogeneous Pre-Modern Manuscript Metadata as Linked Open Data. 2021. *Journal of the Association for Information Science and Technology (JASIST)*. Accepted.
19. Esko Ikkala, Eero Hyvönen, Heikki Rantala and Mikko Koho: Sampo-UI: A Full Stack JavaScript Framework for Developing Semantic Portal User Interfaces. *Semantic Web – Interoperability, Usability, Applicability*, vol. 12, no. 2, 2021.
20. Eero Hyvönen, Heikki Rantala, Esko Ikkala, Mikko Koho, Jouni Tuominen, Babatunde Anafi, Suzie Thomas, Anna Wessman, Eljas Oksanen, Ville Rohiola, Jutta Kuitunen and Minna Ryyppö: Citizen Science Archaeological Finds on the Semantic Web: The FindSampo Framework. *Antiquity, A Review of World Archaeology*, Jan, 2021. Accepted.
21. Mikko Koho, Esko Ikkala, Petri Leskinen, Minna Tamper, Jouni Tuominen and Eero Hyvönen: WarSampo Knowledge Graph: Finland in the Second World War as Linked Open Data. *Semantic Web – Interoperability, Usability, Applicability*, vol. 12, no. 2, pp. 265-278, Jan, 2021.
22. Antonis Bikakis, Eero Hyvönen, Stéphane Jean, Béatrice Markhoff and Alessandro Mosca: Editorial: Special Issue on Semantic Web for Cultural Heritage. *Semantic Web – Interoperability, Usability, Applicability*, vol. 12, no. 2, 2021.

23. Mikko Koho, Toby Burrows, Eero Hyvönen, Esko Ikkala, Kevin Page, Lynn Ransom, Jouni Tuominen, Doug Emery, Mitch Fraas, Benjamin Heller, David Lewis, Andrew Morrison, Guillaume Porte, Emma Thomson, Athanasios Velios and Hanno Wijsman: Harmonizing and Publishing Heterogeneous Pre-Modern Manuscript Metadata as Linked Open Data. 2021. Submitted.
24. Toby Burrows, Douglas Emery, Arthur Mitchell Fraas, Eero Hyvönen, Esko Ikkala, Mikko Koho, David Lewis, Andrew Morrison, Kevin Page, Lynn Ransom, Emma Cawlfeld Thomson, Jouni Tuominen, Athanasios Velios, and Hanno Wijsman: Mapping Manuscript Migrations Knowledge Graph: Data for Tracing the History and Provenance of Medieval and Renaissance Manuscripts. *Journal of Open Humanities Data*, vol. 6, pp. 3, June, 2020.
25. Eero Hyvönen: Using the Semantic Web in Digital Humanities: Shift from Data Publishing to Data-analysis and Serendipitous Knowledge Discovery. *Semantic Web*, vol. 11, no. 1, pp. 187-193, 2020.
26. Lora Aroyo, Franciska de Jong, Eero Hyvönen and Sara Tonelli: Web Semantics for Digital Humanities (editorial for a special issue). *Web Semantics: Science, Services and Agents on the World Wide Web*, Elsevier, May, 2020.
27. Toby Burrows, Eero Hyvönen, Lynn Ransom, Hanno Wijsman: Mapping Manuscript Migrations. Digging into Data for the History and Provenance of Medieval and Renaissance Manuscripts. *Manuscript Studies. A Journal of the Schoenberg Institute for Manuscript Studies*, vol. 3, no. 1, pp. 249-252, University of Pennsylvania Press, 2018.
28. Kasper Apajalahti, Eero Hyvönen, Juha Niiranen, Vilho Räisänen: Combining ontological modelling and probabilistic reasoning for network management. *Journal of Ambient Intelligence and Smart Environments*, vol. 9, no. 1, IOS Press, 2017.
29. Eetu Mäkelä, Juha Törnroos, Thea Lindquist and Eero Hyvönen: WWI LOD - An application of CIDOC-CRM to World War 1 Linked Data. *International Journal on Digital Libraries*, 2016.
30. Matias Frosterus, Jouni Tuominen, Sini Pessala and Eero Hyvönen: Linked Open Ontology Cloud - Managing a System of Interlinked Cross-domain Light-weight Ontologies. 2015. *International Journal of Metadata, Semantics and Ontologies (IJMSO)*.
31. Nina Laurenne, Jouni Tuominen, Hannu Saarenmaa and Eero Hyvönen: Making species checklists understandable to machines - a shift from relational databases to ontologies. *Journal of Biomedical Semantics*, vol. 5, no. 40, September, 2014.
32. Thea Lindquist, Michael Dulock, Juha Törnroos, Eero Hyvönen and Eetu Mäkelä: Using Linked Open Data to Enhance Subject Access in Online Primary Sources. 2013. *Cataloging & Classification Quarterly*, Taylor & Francis, 2014.
33. Tuukka Ruotsalo, Krister Haav, Antony Stoyanov, Sylvain Rochee, Elena Fanid, Romina Deliaic, Eetu Mäkelä, Tomi Kauppinen and Eero Hyvönen: Context-aware Information Filtering on the Web of Data: The SMARTMUSEUM system. *Journal of Web Semantic*, 2013.

34. Eetu Mäkelä, Kaisa Hyphen, Eero Hyvönen: Fiction Literature as Linked Open Data - the BookSampo Dataset. *Semantic Web – Interoperability, Usability, Applicability*, 2012.
35. Eetu Mäkelä, Eero Hyvönen, Tuukka Ruotsalo: How to deal with massively heterogeneous cultural heritage data – lessons learned in CultureSampo. *Semantic Web – Interoperability, Usability, Applicability*, 2012.
36. Dimitrios A. Koutsomitropoulos, Eero Hyvönen, and Theodore S. Papatheodorou: Semantic Web and Reasoning for Cultural Heritage and Digital Libraries. *Semantic Web – Interoperability, Usability, Applicability*, vol. 3, no. 1, IOS Press, 2012.
37. Tomi Kauppinen, Glauco Mantegari, Panu Paakkarinen, Heini Kuittinen, Eero Hyvönen and Stefania Bandini: Determining Relevance of Imprecise Temporal Intervals for Cultural Heritage Information Retrieval. *International Journal of Human-Computer Studies*, vol. 86, no. 9, pp. 549-560, Elsevier, September, 2010.
38. Eero Hyvönen: Preventing Interoperability Problems Instead of Solving Them. *Semantic Web - Interoperability, Usability, Applicability*, Vol. 1, no. 1-2, 2010.
39. Lynda Hardman, Jacco van Ossenbruggen, Lora Aroy and Eero Hyvönen: Using AI to Access and Experience Cultural Heritage. *IEEE Intelligent Systems*, vol. 24, no. 2, IEEE Computer Society, March/April, 2009.
40. Osma Suominen, Eero Hyvönen, Kim Viljanen and Eija Hukka: HealthFinland - a National Semantic Publishing Network and Portal for Health Information. *Journal of Web Semantics*, 2009.
41. Tuomas Palonen, Jouni Hyvönen, Joeli Takala and Eero Hyvönen: Semanttinen Kalevala - Kulttuurisammon taontaa (Semantic Kalevala). *eLore*, Vol 2., Nr. 16, 2009.
42. Onni Valkeapää, Eero Hyvönen and Olli Alm: A Framework for Ontology-based Adaptable Content Creation on the Semantic Web. *Journal of Universal Computer Science*, 2007.
43. Eero Hyvönen, Eetu Mäkelä, Mirva Salminen, Arttu Valo, Kim Viljanen, Samppa Saarela, Miikka Junnila, and Suvi Kettula: MuseumFinland -- Finnish Museums on the Semantic Web. *Journal of Web Semantics*, Elsevier, 2005.
44. E. Hyvönen, S. De Pascale: A New Basis for Spreadsheet Computing, *AI Magazine*, Vol. 21, No. 4., 2000, pp. 83-92.
45. E. Hyvönen, S. De Pascale: Scientific Spreadsheet Computing. *Scientific Data Management*, Vol. 3, Nr. 4, 1999, pp. 26-30.
46. E. Hyvönen, Interval Constraint Solver for Microsoft Excel. *Computational Logic*, Vol. 4, No 1, 1998, pp. 61.
47. J. Pesonen, E. Hyvönen: Interval Approach Challenges Monte Carlo Simulation. *International Journal of Reliable Computing*, Vol. 2, Nr. 2, 1996, 155-160.
48. E. Hyvönen, S. De Pascale: InC++ Library Family for Interval Computations. *International Journal of Reliable Computing*, supplement, Proceedings of Applications of Interval Computations, El Paso, Texas, USA, 1995.

49. E. Hyvönen, S. De Pascale: Interval Constraint Spreadsheets — An Implementation for MS Excel. *International Journal of Reliable Computing*, supplement, Proceedings of Applications of Interval Computations, El Paso, Texas, USA, 1995.
50. E. Hyvönen: Spreadsheets Based on Interval Constraint Satisfaction. *Artificial Intelligence for Engineering Design, Analysis and Manufacturing* 8, No. 1, 1994, pp. 27-34.
51. E. Hyvönen: Constraint Reasoning Based on Interval Arithmetic. The Tolerance Propagation Approach. *Artificial Intelligence* 58, 1992, pp. 71-112.
52. E. Hyvönen: Applying a Logical Interpretation of Graph Grammars to Natural Language Parsing and Understanding. *Synthese* 66, No.1, 1986, pp. 177-190.

## A.2 Book Chapters

53. Eero Hyvönen: Military History on the Semantic Web: Lessons Learned from Developing Three In-use Linked Open Data Services and Semantic Portals for Digital Humanities. *Intelligent Computing for Cultural Heritage: Global Developments and China's Innovations*, Francis & Taylor, Routledge, July, 2024.
54. Arttu Oksanen, Jouni Tuominen, Eetu Mäkelä, Minna Tamper, Aki Hietanen and Eero Hyvönen: Law and Justice as a Linked Open Data Service. *Knowledge of the Law in the Big Data Age* (G. Peruginelli and S. Faro (eds.)), *Frontiers in Artificial Intelligence and Applications*, vol. 317, IOS Press, 2019. ISBN 978-1-61499-984-3 (print); ISBN 978-1-61499-985-0 (online).
55. Howard Hotson, Thomas Wallnig, Jouni Tuominen, Eetu Mäkelä, and Eero Hyvönen: People. *Reassembling the Republic of Letters in the Digital Age* (H. Hotson and T. Wallnig (eds.)), pp. 119-136, Göttingen University Press, 2019.
56. Eero Hyvönen, Ruth Ahnert, Sebastian E. Ahnert, Jouni Tuominen, Eetu Mäkelä, Miranda Lewis and Gertjan Filarski: Reconciling metadata. *Reassembling the Republic of Letters in the Digital Age* (H. Hotson and T. Wallnig (eds.)), pp. 223-235, Göttingen University Press, 2019.
57. Howard Hotson and Eero Hyvönen: Topics. *Reassembling the Republic of Letters in the Digital Age* (H. Hotson and T. Wallnig (eds.)), pp. 137-148, Göttingen University Press, 2019.
58. Anna Wessman, Suzie Thomas, Ville Rohiola, Mikko Koho, Esko Ikkala, Jouni Tuominen, Eero Hyvönen, Jutta Kuitunen, Helinä Parviainen, and Marianna Niukkanen: Citizen Science in Archaeology: Developing a Collaborative Web Service for Archaeological Finds in Finland. *Transforming Heritage Practice in the 21st Century: Contributions from Community Archaeology* (John Jameson and Sergiu Musteață (eds.)), Springer, 2019.
59. Suzie Thomas, Anna Wessman, Esko Ikkala, Jouni Tuominen, Mikko Koho and Eero Hyvönen: (co-)Creating a Sustainable Platform for Finland's Archaeological Chance Finds: The Story of SuALT. *Digital Heritage and Archaeology in Practice* (Ethan Watrall and Lynne Goldstein (eds.)), University Press of Florida, October, 2018. Submitted.

60. Eero Hyvönen: Cultural Heritage Linked Data on the Semantic Web: Three Case Studies Using the Sampo Model. Invited presentation, VIII Encounter of Documentation Centres of Contemporary Art: Open linked data and integral management of information in cultural centres, 2016. Artium, Vitoria-Gasteiz, Spain. Translations in Spanish and Basque published in 2019.
61. Lyndon Nixon, Stamatia Dasiopoulou, Jean-Pierre Evain, Eero Hyvönen, Yiannis Kompatsiaris, Raphael Troncy: Chapter VII. Multimedia, Broadcasting and eCulture. In: John Dominique, James A. Hendler (eds): Handbook of Semantic Web Technologies. Springer-Verlag, 2011.
62. Tomi Kauppinen, Panu Paakkari, Eetu Mäkelä, Heini Kuittinen, Jari Väättäinen and Eero Hyvönen: Geospatio-temporal Semantic Web for Cultural Heritage. In: Digital Culture and E-Tourism: Technologies, Applications and Management Approaches, IGI Press, 2011.
63. Eero Hyvönen, Jouni Tuominen, Tomi Kauppinen, Jari Väättäinen: Representing and Utilizing Changing Historical Places as an Ontology Time Series. In: Naveen Ashish and Amit Sheth (eds.): Geospatial Semantics and Semantic Web: Foundations, Algorithms, and Applications, Springer-Verlag, 2011.
64. Eero Hyvönen: Semantic Developing and Using a National Cross-domain Semantic Web Infra-structure. In: Phillip Sheu, Heather Yu, C. V. Ramamoorthy, Arvind K. Joshi, and Lotfi A. Zadeh (Eds.): Semantic Computing. IEEE Press / Wiley, 2010.
65. Eero Hyvönen: Semantic Portals for Cultural Heritage. In: Steffen Staab and Rudi Studer (eds.): Handbook on Ontologies (2nd Edition), Springer-Verlag, April, 2009.
66. Eero Hyvönen, Tuukka Ruotsalo, Thomas Häggström, Mirva Salminen, Miikka Junnila, Mikko Virkkilä, Mikko Haaramo, Eetu Mäkelä, Tomi Kauppinen and Kim Viljanen: CultureSampo-Finnish Culture on the Semantic Web: The Vision and First Results. In: Klaus Robering (ed.): Information Technology for the Virtual Museum, LIT Verlag, Berlin, 2008.
67. Miikka Junnila, Eero Hyvönen, Mirva Salminen: Describing and Linking Cultural Semantic Content by Using Situations and Actions. In: Klaus Robering (ed.): Information Technology for the Virtual Museum, LIT Verlag, Berlin, 2008.
68. Antti Vehviläinen, Eero Hyvönen, Olli Alm: A semi-automatic semantic annotation and authoring tool for a library help desk service. In: Jörg Rech, Eric Ras, Björn Decker (eds.): Emerging Technologies for Semantic Work Environments: Techniques, Methods, and Applications. IGI Global, Hershey, PA, 2008.
69. Tomi Kauppinen and Eero Hyvönen: Modeling and Reasoning about Changes in Ontology Time Series. Ontologies: A Handbook of Principles, Concepts and Applications in Information Systems. In: Rajiv Kishore, Ram Ramesh and Raj Sharman (eds): Integrated Series in Information Systems, pp. 319-338, Springer-Verlag, New York (NY), 2007.
70. Markus Holi and Eero Hyvönen: Modeling Uncertainty in Semantic Web Taxonomies. In: Zhongmin Ma (ed.). Soft Computing in Ontologies and Semantic Web, Springer-Verlag, 2006.



71. E. Hyvönen: Interval input and output. In: Krämer, W., von Gudenberg, J. (eds.): *Scientific Computing, Validated Numerics, Interval Computations*, Kluwer Academic, 2002, pp. 41-51.
72. E. Hyvönen, S. De Pascale: Shared Computations for Efficient Interval Function Evaluation. In: G. Alefeld, E. Frommer (eds.): *Scientific Computing, Computer Arithmetic and Validated Numerics*, Akademie-Verlag, Berlin, Germany, 1996.
73. E. Hyvönen, S. De Pascale, Lehtola, A.: Interval Constraint Programming in C++, In: Mayoh, B., Tuygu, E., Penjam, J. (Eds.): *Constraint Programming* NATO ASI Series, Vol. F131, Springer-Verlag, Berlin, 350-366, 1994.
74. E. Hyvönen: Constraint Reasoning Based on Interval Arithmetic, In: Freuder, E., Mackworth, A., (Eds.), *Constraint-Based Reasoning*, MIT Press, Cambridge, USA, 1994.
75. E. Hyvönen, S. De Pascale: Interval Computations on the Spreadsheet. In: B. Kearfott, V. Kreinovich (eds.), *Applications of Interval Computations*, Kluwer, New York, 1996, 169-210.

### A.3 Conferences

#### 2025

76. Henna Poikkimäki, Petri Leskinen, Eero Hyvönen: Using Network Analysis for Studying Cultural Heritage Knowledge Graphs – Case Correspondence Networks in Grand Duchy of Finland 1809–1917. August, 2024. Under review.

#### 2024

77. Rafael Leal, Annastiina Ahola and Eero Hyvönen: Using LLMs for Enriching Metadata with Links to KOS and Knowledge Graphs: Case Finnish Named Entity Linking. NKOS Workshop on AI and KOS at DCMI-2024 in Toronto, June, 2024. Accepted abstract.
78. Eero Hyvönen, Patrik Boman, Heikki Rantala, Annastiina Ahola and Petri Leskinen: ConfermentSampo - A Knowledge Graph, Data Service, and Semantic Portal for Intangible Academic Cultural Heritage 1643-2023 in Finland. Proceedings of the 6th International Knowledge Graph and Semantic Web Conference, Dec 11-13. 2024, Paris, France, Springer-Verlag, October, 2024. Accepted..
79. Eero Hyvönen and Jouni Tuominen: 8-star Linked Open Data Model: Extending the 5-star Model for Better Reuse, Quality, and Trust of Data. Posters, Demos, Workshops, and Tutorials of the 20th International Conference on Semantic Systems (SEMANTiCS 2024), vol. 3759, CEUR Workshop Proceedings, September, 2024.
80. Eero Hyvönen, Hien Cao, Rafael Leal, Heikki Rantala and Aki Hietanen: A Model and Case Study for Searching and Reading Cross-border Multilingual Legislation on the Semantic Web. SEMANTiCS 2024, 20th International Conference on Semantic Systems, proceedings, IOS Press, September, 2024.

81. Heikki Rantala, Petri Leskinen, Lilli Peura and Eero Hyvönen: Representing and searching associations in cultural heritage knowledge graphs using faceted search. *Knowledge Graphs in the Age of Language Models and Neuro-Symbolic AI. Proceedings of the 20th International Conference on Semantic Systems, 17–19 September 2024, Amsterdam, The Netherlands, pp. 420-435, IOS Press, September, 2024.*
82. Annastiina Ahola, Eero Hyvönen, Heikki Rantala and Anne Kauppala: Historical Opera and Music Theatre Performances on the Semantic Web: OperaSampo 1830-1960. *SEMANTiCS 2024, 20th International Conference on Semantic Systems, proceedings, IOS Press, September, 2024.*
83. Heikki Rantala, Eljas Oksanen, Frida Ehrnsten and Eero Hyvönen: Publishing Numismatic Public Finds on the Semantic Web for Digital Humanities Research – CoinSampo Linked Open Data Service and Semantic Portal. *SemDH 2024, First International Workshop of Semantic Digital Humanities, co-located with ESWC 2024, Hersonissos, Greece, Proceedings, CEUR Workshop Proceedings, Vol. 3724, May, 2024.*
84. Heikki Rantala, Eljas Oksanen, Frida Ehrnsten and Eero Hyvönen: Searching and Analyzing Coin Finds with a Linked Data Based Web Application. *The Semantic Web: ESWC 2024 Satellite Events, Hersonissos, Crete, Greece, May 26 - 30, 2024, Proceedings, Springer, May, 2024.*
85. Annastiina Ahola, Heikki Rantala and Eero Hyvönen: ArtSampo - Finnish art on the Semantic Web. *The Semantic Web: ESWC 2024 Satellite Events, Hersonissos, Crete, Greece, May 26 - 30, 2024, Proceedings, Springer, May, 2024.*
86. Mikko Koho and Eero Hyvönen: Studying Occupations and Social Measures of Perished Soldiers in WarSampo Linked Open Data. *Proceedings of the Biographical Data in a Digital World 2022 (BD 2022), Tokyo, Institute of Cultural History, ZRC SAZU, Ljubljana, Slovenia, January, 2024.*
87. Petri Leskinen and Eero Hyvönen: Biographical and Prosopographical Analyses of Finnish Academic People 1640–1899 Based on Linked Open Data. *Proceedings of the Biographical Data in a Digital World 2022 (BD 2022), Tokyo, Institute of Cultural History, ZRC SAZU, Ljubljana, Slovenia, January, 2024.*
88. Eero Hyvönen: Creating and Using Biographical Dictionaries for Digital Humanities Based on Linked Data: A Survey of Web Services in Use in Finland. *Proceedings of the Biographical Data in a Digital World 2022 (BD 2022), Tokyo, Institute of Cultural History, ZRC SAZU, Ljubljana, Slovenia, January, 2024.*
89. Eero Hyvönen, Mikko Koho, Angel Daza and Gregor Pobežin: Editorial of the Proceedings of the BD2022 Biographical Data in a Digital World 2022 Conference. *Proceedings of the Biographical Data in a Digital World 2022 (BD 2022), Tokyo, Institute of Cultural History, ZRC SAZU, Ljubljana, Slovenia, January, 2024.*
90. Eero Hyvönen, Hien Cao, Rafael Leal, Heikki Rantala and Aki Hietanen: Searching and analyzing cross-border multilingual legislation on the Semantic Web. *The Semantic Web: ESWC 2024 Satellite Events, Hersonissos, Crete, Greece, May 26 - 30, 2024, Proceedings, Springer, May, 2024.*

**2023**

91. Heikki Rantala, Eero Hyvönen and Petri Leskinen: Finding and explaining relations in a biographical knowledge graph based on life events: Case BiographySampo. ESWC 2023 Workshops and tutorials joint proceedings, CEUR Workshop Proceedings, 2023.
92. Minna Tamper, Laura Sinikallio, Jouni Tuominen and Eero Hyvönen: Transforming Linguistically Annotated Finnish Parliamentary Debates Into the Parla-CLARIN Format. Digital Humanities in the Nordic and Baltic Countries Seventh Conference (DHNB 2023), Book of Abstracts (Sofie Gilbert and Annika Rockenberger (eds.)), pp. 118, University of Oslo Library, Oslo, Norway, March, 2023.
93. Eero Hyvönen: How to Create a National Cross-domain Ontology and Linked Data Infrastructure and Use It on the Semantic Web. Programming and Data Infrastructure in Digital Humanities, Book of Abstracts, pp. 7, High Performance Computing Centre, University of Évora, Portugal, March, 2023.
94. Senka Drobac, Johanna Enqvist, Petri Leskinen, Muhammad Faiz Wahjoe, Heikki Rantala, Mikko Koho, Ilona Pikkanen, Iida Jauhiainen, Jouni Tuominen, Hanna-Leena Paloposki, Matti La Mela and Eero Hyvönen: The Laborious Cleaning: Acquiring and Transforming 19th-Century Epistolary Metadata. Proceedings of DHNB 2022, Oslo, 2023.
95. Senka Drobac, Laura Sinikallio and Eero Hyvönen: An OCR Pipeline for Transforming Parliamentary Debates into Linked Data: Case ParliamentSampo – Parliament of Finland on the Semantic Web. Digital Humanities in the Nordic and Baltic Countries Publication, DHNB2023 Conference Proceedings, vol. 5, no. 1, pp. 287-296, University of Oslo Library, Norway, 2023.
96. Annastiina Ahola, Eero Hyvönen and Heikki Rantala: A User Interface Model for Digital Humanities Research: Case BookSampo – Finnish Fiction Literature on the Semantic Web. Proceedings of ESWC 2023, poster and demo papers, Springer-Verlag, June, 2023.
97. Annastiina Ahola, Telma Peura and Eero Hyvönen: Interfacing the BookSampo Knowledge Graph of Finnish Literature for Data Analyses in Digital Humanities. DARIAH Annual Event 2023, poster paper, DARIAH-EU, June, 2023.
98. Eero Hyvönen, Petri Leskinen and Heikki Rantala: Integrating Faceted Search with Data Analytic Tools in the User Interface of ParliamentSampo - Parliament of Finland on the Semantic Web. Proceedings of ESWC 2023, poster and demo papers, Sringer-Verlag, June, 2023.
99. Eero Hyvönen: Creating and Using a National Linked Open Data Infrastructure for Cultural Heritage Applications and Digital Humanities Research: Lessons Learned. DARIAH Annual Event 2023, abstracts of papers, DARIAH-EU, June, 2023.
100. Annastiina Ahola and Eero Hyvönen: Visualizing Literary Linked Data for Public Library Users in the New User Interface for BookSampo – Finnish Fiction Literature on the Semantic Web. October, 2023. Proceedings of VOILA 2023, Athens, CEUR Workshop Proceedings, forth-coming.

101. Heikki Rantala, Annastiina Ahola, Esko Ikkala and Eero Hyvönen: How to create easily a data analytic semantic portal on top of a SPARQL endpoint: introducing the configurable Sampo-UI framework. July, 2023. Proceedings of VOILA 2023, Athens, CEUR Workshop Proceedings.
102. Mikko Koho and Eero Hyvönen: Studying Occupations and Social Measures of Perished Soldiers in WarSampo Linked Open Data. Biographical Data in a Digital World 2022 (BD 2022), Tokyo, CEUR Workshop Sproceedings, August, 2023.
103. Eero Hyvönen, Laura Sinikallio, Petri Leskinen, Senka Drobac, Rafael Leal, Matti La Mela, Jouni Tuominen, Henna Poikkimäki and Heikki Rantala: Plenary Speeches of the Parliament of Finland as Linked Open Data and Data Services. Joint Proceedings of the Second International Workshop on Knowledge Graph Generation From Text and the First International BiKE Challenge co-located with 20th Extended Semantic Conference (ESWC 2023), pp. 1-20, CEUR Workshop Proceedings, Vol. 3447, August, 2023.
104. Eero Hyvönen: Creating and Using Biographical Dictionaries for Digital Humanities Based on Linked Data: A Survey of Web Services in Use in Finland. Biographical Data in a Digital World 2022 (BD 2022), Tokyo, Proceedings, accepted, August, 2023.
105. Petri Leskinen and Eero Hyvönen: Biographical and Prosopographical Analyses of Finnish Academic People 1640–1899 Based on Linked Open Data. Biographical Data in a Digital World 2022 (BD 2022), Tokyo, Proceedings, accepted, August, 2023. Forth-coming.
106. Annastiina Ahola, Eero Hyvönen, Heikki Rantala and Anne Kauppala: Publishing and studying historical opera and music theatre performances on the Semantic Web: case OperaSampo 1830–1960. Proceedings of SWODCH 2023. Semantic Web and Ontology Design for Cultural Heritage. Co-located with the 22nd International Semantic Web Conference (ISWC 2023) in Athens, Greece, September, 2023. Accepted, forth-coming.
107. Eero Hyvönen, Petri Leskinen and Jouni Tuominen: A Data-driven Approach to Create an Ontology of Parliamentary Work: Case Parliament of Finland on the Semantic Web. Proceedings of SWODCH 2023. Semantic Web and Ontology Design for Cultural Heritage. Co-located with the 22nd International Semantic Web Conference (ISWC 2023) in Athens, Greece, September, 2023. Accepted, forth-coming.
108. Eero Hyvönen, Annastiina Ahola, Heikki Rantala and Anne Kauppala: OperaSampo – Opera and Music Theatre Performances in Finland 1830–1960 on the Semantic Web. Proceedings of the ISWC 2023 Posters, Demos and Industry Tracks: From Novel Ideas to Industrial Practice co-located with 21st International Semantic Web Conference (ISWC 2023) (Irina Fundulaki, Kouji Kozaki, Jose Manuel Gomez-Perez and Daniel Garijo (eds.)), CEUR Workshop Proceedings, November, 2023
109. Heikki Rantala, Eero Hyvönen and Petri Leskinen: Finding relations between entities in a knowledge graph: Case artists of the Getty Union List of Artist Names (ULAN). 2023. Submitted for review.

110. Heikki Rantala, Eero Hyvönen and Petri Leskinen: Finding and explaining relations in a biographical knowledge graph based on life events: Case BiographySampo. ESWC 2023 Workshops and tutorials joint proceedings, CEUR Workshop Proceedings, 2023.
111. Eero Hyvönen, Petri Leskinen, Laura Sinikallio, Senka Drobac, Rafael Leal, Matti La Mela, Jouni Tuominen, Henna Poikkimäki and Heikki Rantala: ParliamentSampo Infrastructure for Publishing the Plenary Speeches and Networks of Politicians of the Parliament of Finland as Open Data Services. Proceedings of Text2KG Workshop, co-located with ESWC 2023, Hersonissos, Greece, forthcoming, 2023.
112. Annastiina Ahola, Eero Hyvönen and Heikki Rantala: A User Interface Model for Digital Humanities Research: Case BookSampo – Finnish Fiction Literature on the Semantic Web. Proceedings of ESWC 2023, Posters & Demos, Springer, forthcoming, 2023.

## 2022

113. Senka Drobac, Laura Sinikallio and Eero Hyvönen: An OCR Pipeline for Transforming Parliamentary Debates into Linked Data: Case ParliamentSampo – Parliament of Finland on the Semantic Web. 2022. Paper under review.
114. Henna Poikkimäki, Petri Leskinen, Minna Tamper and Eero Hyvönen: Analyses of Networks of Politicians Based on Linked Data: Case ParliamentSampo - Parliament of Finland on the Semantic Web. Semantic Web and Ontology Design for Cultural Heritage (SWODCH 2022), Turin, Italy, Proceedings, CEUR WS Proceedings, 2022. Accepted.
115. Eljas Oksanen, Heikki Rantala, Jouni Tuominen, Michael Lewis, David Wigg-Wolf, Frida Ehrnsten and Eero Hyvönen: Digital Humanities Solutions for Pan-European Numismatic and Archaeological Heritage Based on Linked Open Data. 6th Digital Humanities in Nordic and Baltic Countries Conference, CEUR Workshop Proceedings, 2022. Accepted.
116. Telma Peura, Petri Leskinen and Eero Hyvönen: What Linked Data Can Tell about Geographical Trends in Finnish Fiction Literature - Using the BookSampo Knowledge Graph in Digital Humanities. 2022. Semantic Web in Libraries Conference (SWIB22), 2022. Accepted.
117. Joonas Kesäniemi, Mikko Koho, Esko Ikkala and Eero Hyvönen: Using Wikibase for Managing Cultural Heritage Linked Open Data Based on CIDOC CRM. Semantic Web and Ontology Design for Cultural Heritage (SWODCH 2022), Turin, Italy, Proceedings, CEUR WS Proceedings, September 2022. Accepted.
118. Eero Hyvönen, Minna Tamper, Esko Ikkala, Mikko Koho, Rafael Leal, Joonas Kesäniemi, Arttu Oksanen, Jouni Tuominen and Aki Hietanen: LawSampo Portal and Data Service for Publishing and Using Legislation and Case Law as Linked Open Data on the Semantic Web. International Workshop on Artificial Intelligence Technologies for Legal Documents (AI4LEGAL), co-located with ISWC 2022, Hangzhou, China, CEUR Workshop Proceedings, 2022, in press.
119. Arttu Oksanen, Eero Hyvönen, Minna Tamper, Jouni Tuominen, Henna Ylimaa, Katja Löytynoja, Matti Kokkonen and Aki Hietanen: A Tool for Pseudonymization of Textual Documents for Digital Humanities Research and Publication.

- International Workshop on Artificial Intelligence Technologies for Legal Documents (AI4LEGAL), co-located with ISWC 2022, Hangzhou, CHina, CEUR Workshop Proceedings, 2022, in press.
120. Eero Hyvönen, Laura Sinikallio, Petri Leskinen, Matti La Mela, Jouni Tuominen, Kimmo Elo, Senka Drobac, Mikko Koho, Esko Ikkala, Minna Tamper, Rafael Leal and Joonas Kesäniemi: Linked Data Approach for Studying Parliamentary Speeches and Networks of Politicians in Finland 1907-2021 (long paper). Digital Humanities 2022, Conference Abstracts, July 25-29, 2022 Online, Tokyo. Japan, University of Tokyo, pp. 254-257, ADHO, July, 2022.
  121. Angel Daza, Antske Fokkens, Richard Hadden, Eero Hyvönen, Mikko Koho and Eveline Wandl-Vogt: Biographical Data in a Digital World 2022 (BD 2022) Workshop. Digital Humanities 2022, Conference Abstracts, July 25-29, 2022 Online, Tokyo. Japan, University of Tokyo, pp. 39-42, ADHO, July, 2022.
  122. Mikko Koho, Esko Ikkala and Eero Hyvönen: Reassembling the Lives of Finnish Prisoners of the Second World War on the Semantic Web. Proceedings of the Third Conference on Biographical Data in a Digital World (BD 2019), pp. 31-39, CEUR Workshop Proceedings, June, 2022.
  123. Mikko Koho, Rafael Leal, Esko Ikkala, Minna Tamper, Heikki Rantala and Eero Hyvönen: Building Lightweight Ontologies for Faceted Search with Named Entity Recognition: Case WarMemoirSampo. Proceedings of the 1st International Workshop on Knowledge Graph Generation From Text and the 1st International Workshop on Modular Knowledge, co-located with 19th Extended Semantic Conference (ESWC 2022)vol. CEUR Workshop Proceedings, 2022.
  124. Matti La Mela, Fredrik Norén and Eero Hyvönen: Digital Parliamentary Data in Action (DiPaDA 2022): Introduction. Proceedings of the Digital Parliamentary Data in Action (DiPaDA 2022) Workshop, CEUR Workshop Proceedings, Vol. 3133, May, 2022.
  125. Minna Tamper, Rafael Leal, Laura Sinikallio, Petri Leskinen, Jouni Tuominen and Eero Hyvönen: Extracting Knowledge from Parliamentary Debates for Studying Political Culture and Language. Proceedings of the 1st International Workshop on Knowledge Graph Generation From Text and the 1st International Workshop on Modular Knowledge, co-located with 19th Extended Semantic Conference (ESWC 2022), CEUR Workshop Proceeding, May, 2022.
  126. Eero Hyvönen, Laura Sinikallio, Petri Leskinen, Matti La Mela, Jouni Tuominen, Kimmo Elo, Senka Drobac, Mikko Koho, Esko Ikkala, Minna Tamper, Rafael Leal and Joonas Kesäniemi: Finnish Parliament on the Semantic Web: Using ParliamentSampo Data Service and Semantic Portal for Studying Political Culture and Language. Digital Parliamentary data in Action (DiPaDa 2022), Workshop at the 6th Digital Humanities in Nordic and Baltic Countries Conference, long paper, CEUR Workshop Proceedings, Vol. 3133, May, 2022.
  127. Heikki Rantala and Eero Hyvönen: Who is Related to What and How? Using Biographical Knowledge Graphs for Explainable Relational Search in BiographySampo. May, 2022. Submitted for review. bib pdf
  128. Petri Leskinen, Heikki Rantala and Eero Hyvönen: Analyzing the Lives of Finnish Academic People 1640–1899 in Nordic and Baltic Countries: Academy Sampo

- Data Service and Portal. 6th Digital Humanities in Nordic and Baltic Countries Conference, long paper, CEUR Workshop Proceedings, March, 2022.
129. Jouni Tuominen, Mikko Koho, Ilona Pikkanen, Senka Drobac, Johanna Enqvist, Eero Hyvönen, Matti La Mela, Petri Leskinen, Hanna-Leena Paloposki and Heikki Rantala: Constellations of Correspondence: a Linked Data Service and Portal for Studying Large and Small Networks of Epistolary Exchange in the Grand Duchy of Finland. 6th Digital Humanities in Nordic and Baltic Countries Conference, CEUR Workshop Proceedings, March, 2022.
  130. Mikko Koho, Heikki Rantala and Eero Hyvönen: Digital Humanities and Military History: Analyzing Casualties of the WarSampo Knowledge Graph. 6th Digital Humanities in Nordic and Baltic Countries Conference, short paper, March, 2022.
  131. Heikki Rantala, Esko Ikkala, Jouni Tuominen, Eero Hyvönen, Ville Rohiola, Eljas Oksanen and Mikko Koho: FindSampo: A Linked Data Based Service for Analyzing and Disseminating Archaeological Finds. 6th Digital Humanities in Nordic and Baltic Countries Conference, CEUR Workshop Proceedings, March, 2022.
  132. Heikki Rantala, Eljas Oksanen and Eero Hyvönen: Harmonizing and Using Numismatic Linked Data in Digital Humanities Research and Application Development: Case DigiNUMA. The Semantic Web: ESWC 2022 Satellite Events, Springer, March, 2022.
  133. Arttu Oksanen, Minna Tamper, Jouni Tuominen, Aki Hietanen and Eero Hyvönen: A Tool for Pseudonymization of Textual Documents for Digital Humanities Research and Publication. 6th Digital Humanities in Nordic and Baltic Countries Conference, poster paper, book of abstracts, pp. 107-108, March, 2022. Book of Abstracts. bib pdf
  134. Joonas Kesäniemi, Mikko Koho, Esko Ikkala and Eero Hyvönen: Using Wikibase for Managing Cultural Heritage Linked Open Data Based on CIDOC CRM. 6th Digital Humanities in Nordic and Baltic Countries Conference, poster paper, pp. 74-75, March, 2022. Book of Abstracts.
  135. Rafael Leal, Heikki Rantala, Mikko Koho, Esko Ikkala, Markus Merenmies and Eero Hyvönen: WarMemoirSampo: A Semantic Portal for War Veteran Interview Videos. 6th Digital Humanities in Nordic and Baltic Countries Conference, short paper, CEUR Workshop Proceedings, March, 2022. Forth-coming.
  136. Toby Burrows, Laura Cleaver, Doug Emery, Mikko Koho, Lynn Ransom and Emma Thomson: Exploring a large graph of historical objects: the Mapping Manuscript Migrations knowledge graph. February, 2022. Graphs and Networks in the Humanities 2022 conference, extended abstract.
  137. Heikki Rantala, Ilkka Jokipii, Esko Ikkala and Eero Hyvönen: WarVictimSampo 1914–1922: a National War Memorial on the Semantic Web for Digital Humanities Research and Applications. ACM Journal on Computing and Cultural Heritage, vol. 15, no. 1, ACM, Assoc. of Computing Machinery, February, 2022.
  138. Esko Ikkala, Eero Hyvönen, Heikki Rantala and Mikko Koho: Sampo-UI: A Full Stack JavaScript Framework for Developing Semantic Portal User Interfaces. Semantic Web – Interoperability, Usability, Applicability, vol. 13, no. 1, pp. 69-84, January, 2022. Online version published in 2021, print version in 2022.

139. Minna Tamper, Petri Leskinen, Eero Hyvönen, Risto Valjus and Kirsi Keravuori: Analyzing Biography Collection Historiographically as Linked Data: Case National Biography of Finland. *Semantic Web – Interoperability, Usability, Applicability*, pp. 1-35, IOS Press, 2022. Accepted.
140. Petri Leskinen and Eero Hyvönen: Biographical and Prosopographical Analyses of Finnish Academic People 1640–1899 Based on Linked Open Data. 2022. Submitted abstract in 2021. bib
141. Eero Hyvönen, Annastiina Ahola and Esko Ikkala: BookSampo Fiction Literature Knowledge Graph Revisited: Building a Faceted Search Interface with Seamlessly Integrated Data-analytic Tools. *Theory and Practice of Digital Libraries (TDPL 2022)*, Accelerating Innovations Track, Padova, Italy, Springer, 2022. Accepted.
142. Eero Hyvönen: Digital Humanities on the Semantic Web: Sampo Model and Portal Series. 2022. *Semantic Web journal*, accepted.
143. Minna Tamper, Jouni Tuominen and Eero Hyvönen: Extending the Finnish Linked Data Infrastructure with Natural Language Processing Services in FIN-CLARIAH. 6th Digital Humanities in Nordic and Baltic Countries Conference, poster paper, book of abstracts, pp. 131-132, 2022. Book of Abstracts
144. Heikki Rantala, Esko Ikkala, Ville Rohiola, Mikko Koho, Jouni Tuominen, Eljas Oksanen, Anna Wessman and Eero Hyvönen: FindSampo: A Linked Data Based Portal and Data Service for Analyzing and Disseminating Archaeological Object Finds. *The Semantic Web: ESWC 2022*, Springer, 2022. In press.
145. Heikki Rantala, Eljas Oksanen and Eero Hyvönen: Harmonizing and Using Numismatic Linked Data in Digital Humanities Research and Application Development: Case DigiNUMA. *The Semantic Web: ESWC 2022 Satellite Events*, Springer, 2022. In press.
146. Eero Hyvönen, Esko Ikkala, Mikko Koho, and Rafael Leal, Heikki Rantala and Minna Tamper: How to Search and Contextualize Scenes inside Videos for Enriched Watching Experience: Case Stories of the Second World War Veterans. *The Semantic Web: ESWC 2022 Satellite Events*, Springer, 2022.
147. Eero Hyvönen, Petri Leskinen, Minna Tamper, Heikki Rantala, Esko Ikkala, Jouni Tuominen and Kirsi Keravuori: Linked Data – A Paradigm Change for Publishing and Using Biography Collections on the Semantic Web. *Proceedings of the Third Conference on Biographical Data in a Digital World (BD 2019)*, pp. 8, CEUR Workshop Proceedings, 2022.

## 2021

148. Eero Hyvönen: Digital Humanities on the Semantic Web: Sampo Model and Portal Series. April, 2021. Submitted.
149. Eero Hyvönen, Minna Tamper, Esko Ikkala, Mikko Koho, Rafael Leal, Joonas Kesäniemi, Arttu Oksanen, Jouni Tuominen and Aki Hietanen: LawSampo Portal and Data Service for Publishing and Using Legislation and Case Law as Linked Open Data on the Semantic Web. April, 2021. Submitted.



150. Eero Hyvönen, Esko Ikkala, Mikko Koho, Jouni Tuominen, Toby Burrows, Lynn Ransom, and Hanno Wijsman: Mapping Manuscript Migrations on the Semantic Web: A Semantic Portal and Linked Open Data Service for Premodern Manuscript Research. April, 2021. Submitted.
151. Laura Sinikallio, Senka Drobac, Minna Tamper, Rafael Leal, Mikko Koho, Jouni Tuominen, Matti La Mela and Eero Hyvönen: Plenary Debates of the Parliament of Finland as Linked Open Data and in Parla-CLARIN Markup. March, 2021. Proceedings of LDK, 2021. Proceedings of Language, Data, and Knowledge 2021, OASICs, Dagstuhl, 2021. Accepted.
152. Rafael Leal, Joonas Kesäniemi, Mikko Koho and Eero Hyvönen: Relevance Feedback Search Based on Automatic Annotation and Classification of Texts. March, 2021. Proceedings of Language, Data, and Knowledge 2021, OASICs, Dagstuhl, 2021. Accepted.
153. Eero Hyvönen: How to Create a National Cross-domain Ontology and Linked Data Infrastructure and Use It on the SemanticWeb. May, 2021. Keynote presentation for the DCMI 2021 conference.
154. Eero Hyvönen: Digital Humanities on the Semantic Web: Sampo Model and Portal Series. April, 2021. Submitted.
155. Eero Hyvönen, Minna Tamper, Esko Ikkala, Mikko Koho, Rafael Leal, Joonas Kesäniemi, Arttu Oksanen, Jouni Tuominen and Aki Hietanen: LawSampo Portal and Data Service for Publishing and Using Legislation and Case Law as Linked Open Data on the Semantic Web. April, 2021. Submitted.
156. Eero Hyvönen, Esko Ikkala, Mikko Koho, Jouni Tuominen, Toby Burrows, Lynn Ransom, and Hanno Wijsman: Mapping Manuscript Migrations on the Semantic Web: A Semantic Portal and Linked Open Data Service for Premodern Manuscript Research. April, 2021. Submitted.
157. Petri Leskinen, Eero Hyvönen and Jouni Tuominen: Members of Parliament in Finland Knowledge Graph and its Linked Open Data Service. April, 2021. Submitted.
158. Petri Leskinen and Eero Hyvönen: Reconciling and Using Historical Person Registers as Linked Open Data in the AcademySampo Knowledge Graph. 2021. Submitted for peer review.

## 2020

159. Minna Tamper, Arttu Oksanen, Jouni Tuominen, Aki Hietanen and Eero Hyvönen: Automatic Annotation Service APPI: Named Entity Linking in Legal Domain. The Semantic Web: ESWC 2020 Satellite Events (Harth, Andreas, Presutti, Valentina, Troncy, Raphaël, Acosta, Maribel, Polleres, Axel, Fernández, Javier D., Xavier Parreira, Josiane, Hartig, Olaf, Hose, Katja and Cochez, Michael (eds.)), Lecture Notes in Computer Science, vol. 12124, pp. 208-213, Springer-Verlag, 2020.
160. Eero Hyvönen, Minna Tamper, Esko Ikkala, Sami Sarsa, Arttu Oksanen, Jouni Tuominen and Aki Hietanen: Publishing and Using Legislation and Case Law as Linked Open Data on the Semantic Web. The Semantic Web: ESWC 2020 Satellite Events (Harth, Andreas, Presutti, Valentina, Troncy, Raphaël, Acosta, Maribel,

- Polleres, Axel, Fernández, Javier D., Xavier Parreira, Josiane, Hartig, Olaf, Hose, Katja and Cochez, Michael (eds.)), *Lecture Notes in Computer Science*, vol. 12124, pp. 110-114, Springer-Verlag, 2020. [bib pdf link](#)
161. Sami Sarsa and Eero Hyvönen: Searching Case Law Judgements by Using Other Judgements as a Query. *Artificial Intelligence and Natural Language*. 9th Conference, AINL 2020, Helsinki, Finland, October 7–9, 2020 (Filchenkov A., Kauttonen J. and Pivovarov L. (eds.)), pp. 145-157, Springer-Verlag, 2020.
  162. Matti La Mela: Tracing the Emergence of Nordic Allemansrätten through Digitised Parliamentary Sources. *Digital histories: Emergent approaches within the new digital history* (Fridlund, Mats, Oiva, Mila and Paju, Petri (eds.)), pp. 181-197, Helsinki University Press, 2020.
  163. Heikki Rantala, Esko Ikkala, Ilkka Jokipii, Mikko Koho, Jouni Tuominen and Eero Hyvönen: WarVictimSampo 1914–1922: A Semantic Portal and Linked Data Service for Digital Humanities Research on War History. *The Semantic Web: ESWC 2020 Satellite Events* (Harth, Andreas, Presutti, Valentina, Troncy, Raphaël, Acosta, Maribel, Polleres, Axel, Fernández, Javier D., Xavier Parreira, Josiane, Hartig, Olaf, Hose, Katja and Cochez, Michael (eds.)), *Lecture Notes in Computer Science*, vol. 12124, pp. 191-196, Springer-Verlag, 2020.
  164. Babatunde Anafi, Mikko Koho and Eero Hyvönen: Temporal Visualization and Data Analysis of Archaeological Finds: Case FindSampo. *Conference on Cultural Heritage and New Technologies (CHNT 25)*, Museum Stadt Archäologie Wien, Nov, 2020. Posters
  165. Heikki Rantala, Ilkka Jokipii, Mikko Koho, Esko Ikkala, Jouni Tuominen and Eero Hyvönen: Building a Linked Open Data Portal of War Victims in Finland 1914-1922. *DHN 2020 Digital Humanities in the Nordic Countries*. *Proceedings of the Digital Humanities in the Nordic Countries 5th Conference*, pp. 310-317, CEUR Workshop Proceedings, vol. 2612, Riga, Latvia, October, 2020.
  166. Chris A. Sula, Kalani Craig, Michelle Dalmu, Alex Humphreys, Eero Hyvönen, Hannah L. Jacobs, Humphrey Keah, Joseph Kiplangat, Thea Lindquist, Nicholas Weber, Scott B. Weingart: Infrastructures of Digital Humanities. *83rd Association for Information Science and Technology (ASIS&T) Annual Meeting*, proceedings, Association for Information Science and Technology, Silver Spring, Maryland, USA, October, 2020.
  167. Mikko Koho, Petri Leskinen and Eero Hyvönen: Integrating Historical Person Registers as Linked Open Data in the WarSampo Knowledge Graph. *Semantic Systems*. In *the Era of Knowledge Graphs*. *SEMANTiCS 2020* (Eva Blomqvist, Paul Groth, Victor de Boer, Tassilo Pellegrini, Mehwish Alam, Tobias Käfer, Peter Kieseberg, Sabrina Kirrane, Albert Meroño-Peñuela and Harshvardhan J. Pandit (eds.)), *Lecture Notes in Computer Science*, vol. 12378, pp. 118-126, Springer, Cham, Amsterdam, The Netherlands, October, 2020.
  168. Eero Hyvönen: Linked Open Data Infrastructure for Digital Humanities in Finland. *DHN 2020 Digital Humanities in the Nordic Countries*. *Proceedings of the Digital Humanities in the Nordic Countries 5th Conference*, pp. 254-259, CEUR Workshop Proceedings, vol. 2612, Riga, Latvia, October, 2020.

169. Petri Leskinen and Eero Hyvönen: Linked Open Data Service about Historical Finnish Academic People in 1640–1899. DHN 2020 Digital Humanities in the Nordic Countries. Proceedings of the Digital Humanities in the Nordic Countries 5th Conference, pp. 284-292, CEUR Workshop Proceedings, vol. 2612, Riga, Latvia, October, 2020.
170. Toby Burrows, Antoine Brix, Douglas Emery, Arthur Mitchell Fraas, Eero Hyvönen, Esko Ikkala, Mikko Koho, David Lewis, Synnove Myking, Lynn Ransom, Emma Cawlfild Thomson, Jouni Tuominen, Hanno Wijsman and Pip Wilcox: Linked Open Data Vocabularies and Identifiers for Medieval Studies. DHN 2020 Digital Humanities in the Nordic Countries. Proceedings of the Digital Humanities in the Nordic Countries 5th Conference, pp. 211-218, CEUR Workshop Proceedings, vol. 2612, Riga, Latvia, October, 2020.
171. Eero Hyvönen: Sampo Model and Semantic Portals for Digital Humanities on the Semantic Web. DHN 2020 Digital Humanities in the Nordic Countries. Proceedings of the Digital Humanities in the Nordic Countries 5th Conference, pp. 373-378, CEUR Workshop Proceedings, vol. 2612, Riga, Latvia, October, 2020.
172. Heikki Rantala, Eero Hyvönen and Esko Ikkala: Creating the HISTO Ontology of Finnish History Events. Data for History 2020. Modelling Time, Places, Agents., August, 2020. Accepted, conference postponed to 2021.
173. Toby Burrows, Douglas Emery, Mitch Fraas, Eero Hyvönen, Esko Ikkala, Mikko Koho, David Lewis, Andrew Morrison, Kevin Page, Lynn Ransom, Emma Thomson, Jouni Tuominen, Athanasios Velios and Hanno Wijsman: Mapping Manuscript Migrations: Digging into Data for Researching the History and Provenance of Medieval and Renaissance Manuscripts: White Paper. August, 2020.
174. Toby Burrows, Antoine Brix, Douglas Emery, Arthur Mitchell Fraas, Eero Hyvönen, Esko Ikkala, Mikko Koho, David Lewis, Synnove Myking, Lynn Ransom, Emma Cawlfild Thomson, Jouni Tuominen, Hanno Wijsman and Pip Wilcox: Modelling the History of Medieval and Renaissance Manuscripts for the Mapping Manuscript Migrations Portal. Proceedings: Data for History 2020. Modelling Time, Places, Agents., Berlin, August, 2020. Accepted, conference postponed to 2021.
175. Pejam Hassanzadeh, Eero Hyvönen, Esko Ikkala, Jouni Tuominen, Suzie Thomas, Anna Wessman and Ville Rohiola: FindSampo Platform for Reporting and Studying Archaeological Finds Using Citizen Science. 3rd Workshop on Humanities in the Semantic Web (WHiSe 2020), pp. 33-40, CEUR Workshop Proceedings, vol. 2695, June, 2020.
176. Minna Tamper, Petri Leskinen, Jouni Tuominen and Eero Hyvönen: Modeling and Publishing Finnish Person Names as a Linked Open Data Ontology. 3rd Workshop on Humanities in the Semantic Web (WHiSe 2020), pp. 3-14, CEUR Workshop Proceedings, vol. 2695, June, 2020.
177. Eero Hyvönen: Building and Using a National Linked Open Data Infrastructure for Digital Humanities: The Finnish Approach. Proceedings of the conference: Data for History 2020. Modelling Time, Places, Agents, Berlin, 2020. Accepted, conference postponed to 2021.

178. Eero Hyvönen: Semantic Sampo Portals for Digital Humanities Based on a National Linked Open Data Infrastructure. Proceedings of the Digital Humanities in the Nordic Countries. 5th Conference, CEUR Workshop Proceedings, 2020. Vol-2612.

**2019**

179. Eero Hyvönen, Minna Tamper, Esko Ikkala, Sami Sarsa, Arttu Oksanen, Jouni Tuominen, and Aki Hietanen: LawSampo: A Semantic Portal on a Linked Open Data Service for Finnish Legislation and Case Law. September, 2019. Submitted
180. Sami Sarsa and Eero Hyvönen: Searching Case Law Judgements by Using Other Judgements as a Query. September, 2019. Submitted.
181. Arttu Oksanen, Minna Tamper, Jouni Tuominen, Aki Hietanen and Eero Hyvönen: Anoppi: A Pseudonymization Service for Finnish Court Documents. September, 2019. Submitted.
182. Minna Tamper, Arttu oksanen, Jouni Tuominen, Aki Hietanen and Eero Hyvönen: Automatic Annotation Service: Utilizing a Named Entity Linking Tool in Legal Domain. September, 2019. Submitted.
183. Eero Hyvönen, Petri Leskinen, Minna Tamper, Heikki Rantala, Esko Ikkala, Jouni Tuominen and Kirsi Keravuori: Linked Data – A Paradigm Change for Publishing and Using Biography Collections on the Semantic Web. Proceedings of the Third Conference on Biographical Data in a Digital World (BD 2019), Varna, Bulgaria, September, 2019.
184. Mikko Koho, Esko Ikkala and Eero Hyvönen: Reassembling the Lives of Finnish Prisoners of the Second World War on the Semantic Web. Proceedings of the Third Conference on Biographical Data in a Digital World (BD 2019), Varna, Bulgaria, September, 2019.
185. Mikko Koho, Lia Gasbarra, Jouni Tuominen, Heikki Rantala, Ilkka Jokipii and Eero Hyvönen: AMMO Ontology of Finnish Historical Occupations. Proceedings of the The First International Workshop on Open Data and Ontologies for Cultural Heritage (ODOCH 19), vol. 2375, pp. 91-96, CEUR Workshop Proceedings, Rome, Italy, June, 2019.
186. Lia Gasbarra, Mikko Koho, Ilkka Jokipii, Heikki Rantala and Eero Hyvönen: An Ontology of Finnish Historical Occupations. Proceedings of the 16th Extended Semantic Web Conference (ESWC 2019), Posters & demonstrations, Springer, Portoroz, Slovenia, June, 2019.
187. Eero Hyvönen, Petri Leskinen, Minna Tamper, Heikki Rantala, Esko Ikkala, Jouni Tuominen and Kirsi Keravuori: BiographySampo - Publishing and Enriching Biographies on the Semantic Web for Digital Humanities Research. Proceedings of the 16th Extended Semantic Web Conference (ESWC 2019), Springer-Verlag, June, 2019.
188. Petri Leskinen and Eero Hyvönen: Extracting Genealogical Networks of Linked Data from Biographical Texts. Proceedings of the 16th Extended Semantic Web Conference (ESWC 2019), Posters & demonstrations, Springer-Verlag, forthcoming, 2019.

189. Minna Tamper, Eero Hyvönen and Petri Leskinen: Visualizing and Analyzing Networks of Named Entities in Biographical Dictionaries for Digital Humanities Research. Proceedings of the 20th International Conference on Computational Linguistics and Intelligent Text Processing (CICling 2019). Springer-Verlag, April, 2019, Springer-Verlag, April, 2019. Accepted.
190. Anna Wessman, Suzie Thomas, Ville Rohiola, Jutta Kuitunen, Esko Ikkala, Jouni Tuominen, Mikko Koho and Eero Hyvönen: A Citizen Science Approach to Archaeology: Finnish Archaeological Finds Recording Linked Open Database (SuALT). The Fourth Digital Humanities in the Nordic Countries 2019 (DHN2019), CEUR Workshop Proceedings, Copenhagen, Denmark, March, 2019.
191. Eero Hyvönen, Esko Ikkala, Jouni Tuominen, Mikko Koho, Toby Burrows, Lynn Ransom and Hanno Wijsman: A Linked Open Data Service and Portal for Pre-modern Manuscript Research. The Fourth Digital Humanities in the Nordic Countries 2019 (DHN2019), CEUR Workshop Proceedings, Copenhagen, Denmark, March, 2019.
192. Eero Hyvönen and Heikki Rantala: Knowledge-based Relation Discovery in Cultural Heritage Knowledge Graphs. The Fourth Digital Humanities in the Nordic Countries 2019 (DHN2019), CEUR Workshop Proceedings, Copenhagen, Denmark, March, 2019.
193. Petri Leskinen and Eero Hyvönen: Extracting Genealogical Networks of Linked Data from Biographical Texts. March, 2019. Submitted paper.
194. Eero Hyvönen, Petri Leskinen, Minna Tamper, Heikki Rantala, Esko Ikkala, Jouni Tuominen and Kirsi Keravuori: Demonstrating BiographySampo in Solving Digital Humanities Research Problems in Biography and Prosopography. The Fourth Digital Humanities in the Nordic Countries 2019 (DHN2019), CEUR Workshop Proceedings, Copenhagen, Denmark, March, 2019.

## 2018

195. Petri Leskinen, Eero Hyvönen and Jouni Tuominen: Analyzing and Visualizing Prosopographical Linked Data Based on Biographies. Proceedings of the Second Conference on Biographical Data in a Digital World 2017 (BD2017), vol. 2119, pp. 39-44, CEUR Workshop Proceedings, Linz, Austria, 2018.
196. Jouni Tuominen, Eero Hyvönen and Petri Leskinen: Bio CRM: A Data Model for Representing Biographical Data for Prosopographical Research. Proceedings of the Second Conference on Biographical Data in a Digital World 2017 (BD2017), vol. 2119, pp. 59-66, CEUR Workshop Proceedings, Linz, Austria, 2018.
197. Toby Burrows, Eero Hyvönen, Lynn Ransom, Hanno Wijsman: Mapping Manuscript Migrations. Digging into Data for the History and Provenance of Medieval and Renaissance Manuscripts. Manuscript Studies. A Journal of the Schoenberg Institute for Manuscript Studies, vol. 3, no. 1, pp. 249-252, University of Pennsylvania Press, 2018.
198. Eero Hyvönen, Petri Leskinen, Minna Tamper, Heikki Rantala, Esko Ikkala, Jouni Tuominen and Kirsi Keravuori: Biografiasammon tekoäly yhdistää ja rikastaa suomalaiset elämäkerrat semanttisessa webissä. Aalto-yliopisto, Semanttisen laskennan tutkimusryhmä (SeCo), Nov, 2018.

199. Minna Tamper, Petri Leskinen, Kasper Apajalahti and Eero Hyvönen: Using Biographical Texts as Linked Data for Prosopographical Research and Applications. *Digital Heritage. Progress in Cultural Heritage: Documentation, Preservation, and Protection. 7th International Conference, EuroMed 2018, Nicosia, Cyprus, Springer-Verlag, November, 2018.*
200. Goki Miyakita, Petri Leskinen and Eero Hyvönen: U.S. Congress Prosopographer - A Tool for Prosopographical Research of Legislators. *Digital Heritage. Progress in Cultural Heritage: Documentation, Preservation, and Protection. 7th International Conference, EuroMed 2018, Nicosia, Cyprus, Springer-Verlag, November, 2018.*
201. Esko Ikkala, Jouni Tuominen, Jaakko Raunamaa, Tiina Aalto, Terhi Ainiala, Helinä Uusitalo and Eero Hyvönen: NameSampo: A Linked Open Data Infrastructure and Workbench for Toponomastic Research. *Proceedings of the 2nd ACM SIGSPATIAL Workshop on Geospatial Humanities, GeoHumanities 18, pp. 2:1-2:9, ACM, Seattle, WA, USA, November, 2018.*
202. Mikko Koho, Erkki Heino, Arttu Oksanen and Eero Hyvönen: Toffee - Semantic Media Search Using Topic Modeling and Relevance Feedback. *Proceedings of the ISWC 2018 Posters & Demonstrations, Industry and Blue Sky Ideas Tracks, CEUR Workshop Proceedings, Monterey, California, USA, October, 2018. Vol 2180.*
203. Arttu Oksanen, Jouni Tuominen, Eetu Mäkelä, Minna Tamper, Aki Hietanen, and Eero Hyvönen: Semantic Finlex: Finnish Legislation and Case Law as a Linked Open Data Service. *Proceedings of Law via the Internet 2018 (LVI 2018), Knowledge of the Law in the Big Data Age, abstracts, Florence, Italy, October, 2018.*
204. Mikko Koho, Esko Ikkala and Eero Hyvönen: How to Maintain a Linked Data Cloud in a Deployed Semantic Portal. *Proceedings of the ISWC 2018 Posters & Demonstrations, Industry and Blue Sky Ideas Tracks, CEUR Workshop Proceedings, Monterey, California, USA, October, 2018. Vol 2180.*
205. Petri Leskinen, Goki Miyakita, Mikko Koho and Eero Hyvönen: Combining Faceted Search with Data-analytic Visualizations on Top of a SPARQL Endpoint. *Proceedings of VOILA 2018, Monterey, California. CEUR Workshop Proceedings, Vol. 2187, October, 2018.*
206. Minna Tamper, Arttu Oksanen, Jouni Tuominen, Eero Hyvönen and Aki Hietanen: Anonymization Service for Finnish Case Law: Opening Data without Sacrificing Data Protection and Privacy of Citizens. *Proceedings of Law via the Internet 2018 (LVI 2018), Knowledge of the Law in the Big Data Age, abstracts, Florence, Italy, October, 2018.*
207. Mikko Koho, Esko Ikkala, Erkki Heino and Eero Hyvönen: Maintaining a Linked Data Cloud and Data Service for Second World War History. *Digital Heritage. Progress in Cultural Heritage: Documentation, Preservation, and Protection. 7th International Conference, EuroMed 2018, Nicosia, Cyprus, vol. 11196, Springer-Verlag, October-November, 2018.*
208. Kasper Apajalahti, Ermias Andargie Walelgne, Jukka Manner, Eero Hyvönen: Correlation-Based Feature Mapping of Crowdsourced LTE Data. *2018 IEEE 29th Annual International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC), Bologna, Italy, September, 2018.*

209. Esko Ikkala, Eero Hyvönen and Jouni Tuominen: An Ontology of World War II Places for Linking and Enriching Heterogeneous Historical Data Sources. Abstracts, 17th International Conference of Historical Geographers (ICHG 2018), No. 194, Warsaw, Poland, July, 2018.
210. Esko Ikkala, Eero Hyvönen and Jouni Tuominen: A Crowdsourced Old Map Service for Geocoding, Publishing, and Using Historical Places in Linked Data Applications. Abstracts, 17th International Conference of Historical Geographers (ICHG 2018), No. 195, Warsaw, Poland, July, 2018.
211. Minna Tamper, Arttu Oksanen, Eero Hyvönen: Schema.org - hakukonejättien semanttinen web (Schema.org - The Semantic Web of Search Engine Giants). Tietojohtaminen, April, 2018.
212. Eero Hyvönen: Sotasampo - talvi- ja jatkosota semanttisessa webissä (WarSampo - Finnish WW2 on the Semantic Web). Tietoasiantuntija, April, 2018.
213. Eero Hyvönen, Petri Leskinen, Minna Tamper, Jouni Tuominen and Kirsi Keravuori: Semantic National Biography of Finland. Proceedings of the Digital Humanities in the Nordic Countries 3rd Conference (DHN 2018), pp. 372-385, CEUR Workshop Proceedings, Vol-2084, Helsinki, Finland, March, 2018.
214. Jouni Tuominen, Eetu Mäkelä, Eero Hyvönen, Arno Bosse, Miranda Lewis and Howard Hotson: Reassembling the Republic of Letters - A Linked Data Approach. Proceedings of the Digital Humanities in the Nordic Countries 3rd Conference (DHN 2018), pp. 76-88, CEUR Workshop Proceedings, Helsinki, Finland, March, 2018.
215. Esko Ikkala, Eero Hyvönen and Jouni Tuominen: Geocoding, Publishing, and Using Historical Places and Old Maps in Linked Data Applications. Proceedings of the Digital Humanities in the Nordic Countries 3rd Conference, pp. 228-234, Helsinki, Finland, March, 2018.
216. Eero Hyvönen: Semanttinen web. Linkitetyn avoimen datan käsikirja (Semantic Web. Handbook of Linked Open Data). pp. 271, Gaudeamus, Helsinki, Finland, March, 2018.
217. Mikko Koho, Erkki Heino, Esko Ikkala, Eero Hyvönen, Reijo Nikkilä, Tiia Moilanen, Katri Miettinen and Pertti Suominen: Integrating Prisoners of War Dataset into the WarSampo Linked Data Infrastructure. Proceedings of the Digital Humanities in the Nordic Countries 3rd Conference (DHN 2018), CEUR Workshop Proceedings, Helsinki, Finland, March, 2018. Vol 2084.
218. Suzie Thomas, Anna Wessman, Jouni Tuominen, Mikko Koho, Esko Ikkala, Eero Hyvönen, Ville Rohiola and Ulla Salmela: SuALT: Collaborative Research Infrastructure for Archaeological Finds and Public Engagement through Linked Open Data. Digital Humanities in the Nordic Countries 3rd Conference (DHN 2018), Book of Abstracts, Helsinki, Finland, March, 2018.
219. Goki Miyakita, Petri Leskinen and Eero Hyvönen: Using Linked Data for Prosopographical Research of Historical Persons: Case U.S. Congress Legislators. ISWC 2018 Posters & Demonstrations, Industry and Blue Sky Ideas Tracks, CEUR Workshop Proceedings, Vol 2180, Monterey, California, 2018...

**2017**

220. Minna Tamper, Petri Leskinen, Esko Ikkala, Arttu Oksanen, Eetu Mäkelä, Erkki Heino, Jouni Tuominen, Mikko Koho and Eero Hyvönen: AATOS – a Configurable Tool for Automatic Annotation. Proceedings, Language, Technology and Knowledge 2017. June 19-20, Galway, Ireland, Springer-Verlag, February, 2017. Accepted.
221. Eero Hyvönen, Petri Leskinen, Erkki Heino, Jouni Tuominen and Laura Sirola: Reassembling and Enriching the Life Stories in Printed Biographical Registers: High School Alumni on the Semantic Web. Proceedings, Language, Technology and Knowledge 2017. June 19-20, Galway, Ireland, Springer-Verlag, February, 2017. Accepted.
222. Erkki Heino, Minna Tamper, Eetu Mäkelä, Petri Leskinen, Esko Ikkala, Jouni Tuominen, Mikko Koho and Eero Hyvönen: Named Entity Linking in a Complex Domain: Case Second World War History. Proceedings, Language, Technology and Knowledge 2017. June 19-20, Galway, Ireland, Springer-Verlag, February, 2017. Accepted.

**2016**

223. Minna Tamper, Petri Leskinen, Esko Ikkala, Arttu Oksanen, Eetu Mäkelä, Erkki Heino, Jouni Tuominen, Mikko Koho and Eero Hyvönen: AATOS – a Configurable Tool for Automatic Annotation. Proceedings, Language, Technology and Knowledge 2017. June 19-20, Galway, Ireland, Springer-Verlag, February, 2017. Accepted.
224. Eero Hyvönen, Erkki Heino, Petri Leskinen, Esko Ikkala, Mikko Koho, Minna Tamper, Jouni Tuominen and Eetu Mäkelä: WarSampo Data Service and Semantic Portal for Publishing Linked Open Data about the Second World War History. The Semantic Web – Latest Advances and New Domains (ESWC 2016) (Harald Sack, Eva Blomqvist, Mathieu d Aquin, Chiara Ghidini, Simone Paolo Ponzetto and Christoph Lange (eds.)), Springer-Verlag, May, 2016.
225. Mikko Koho, Eero Hyvönen, Erkki Heino, Jouni Tuominen, Petri Leskinen and Eetu Mäkelä: Linked Death - Representing, Publishing, and Using Second World War Death Records as Linked Open Data. The Semantic Web: ESWC 2016 Satellite Events (Harald Sack, Giuseppe Rizzo, Nadine Steinmetz, Dunja Mladenčić, Sören Auer and Christoph Lange (eds.)), Springer-Verlag, June, 2016.
226. Esko Ikkala, Jouni Tuominen and Eero Hyvönen: Contextualizing Historical Places in a Gazetteer by Using Historical Maps and Linked Data. Proceedings of Digital Humanities 2016, short papers, Kraków, Poland, July, 2016.
227. Eetu Mäkelä, Thea Lindquist and Eero Hyvönen: CORE - A Contextual Reader based on Linked Data. Proceedings of Digital Humanities 2016, long papers, Kraków, Poland, July, 2016
228. Eero Hyvönen, Erkki Heino, Petri Leskinen, Esko Ikkala, Mikko Koho, Minna Tamper, Jouni Tuominen and Eetu Mäkelä: Publishing Second World War History as Linked Data Events on the Semantic Web. Proceedings of Digital Humanities 2016, short papers, Kraków, Poland, July, 2016. f



229. Eero Hyvönen, Esko Ikkala and Jouni Tuominen: Linked Data Brokering Service for Historical Places and Maps. Proceedings of the 1st Workshop on Humanities in the Semantic Web - WHiSe, Heraklion, Crete, Greece, May, 2016.
230. Mikko Koho, Erkki Heino and Eero Hyvönen: SPARQL Faceter - Client-side Faceted Search Based on SPARQL. Joint Proceedings of the 4th International Workshop on Linked Media and the 3rd Developers Hackshop, CEUR Workshop Proceedings, Heraklion, Crete, Greece, May, 2016. Vol 1615.
231. Mikko Koho, Eero Hyvönen, Erkki Heino, Jouni Tuominen, Petri Leskinen and Eetu Mäkelä: Linked Death - Representing, Publishing, and Using Second World War Death Records as Linked Open Data. Proceedings of the 1st Workshop on Humanities in the Semantic Web - WHiSe, CEUR Workshop Proceedings, Vol. 1608, 2016.
232. Mikko Koho, Eero Hyvönen, Erkki Heino, Jouni Tuominen, Petri Leskinen and Eetu Mäkelä: Linked Death - Representing, Publishing, and Using Second World War Death Records as Linked Open Data. The Semantic Web: ESWC 2016 Satellite Events (Harald Sack, Giuseppe Rizzo, Nadine Steinmetz, Dunja Mladenić, Sören Auer and Christoph Lange (eds.)), Springer-Verlag, June, 2016. (Extended invited version of the previous paper.)
233. Kasper Apajalahti, Eero Hyvönen, Juha Niiranen, Vilho Räisänen: StaRe: Statistical Reasoning Tool for 5G Network Management. The Semantic Web: ESWC 2016 Satellite Events (Harald Sack, Giuseppe Rizzo, Nadine Steinmetz, Dunja Mladenić, Sören Auer, Christoph Lange (ed.)), Springer-Verlag, May, 2016.
234. Kasper Apajalahti, Eero Hyvönen, Juha Niiranen, Vilho Räisänen: Combining Ontologies and Markov Logic Networks for Statistical Relational Mobile Network Analysis. Proceedings of the 1st Workshop on Semantic Web Technologies for Mobile and Pervasive Environments (SEMPER), CEUR Workshop Proceedings, Heraklion, Crete, Greece, May, 2016. Vol 1588.

## 2015

235. Eero Hyvönen, Erkki Heino, Petri Leskinen, Esko Ikkala, Mikko Koho, Minna Tamper, Jouni Tuominen and Eetu Mäkelä: WarSampo Data Service and Semantic Portal for Publishing Linked Open Data about the Second World War History. The Semantic Web – Latest Advances and New Domains (ESWC 2016) (Harald Sack, Eva Blomqvist, Mathieu d Aquin, Chiara Ghidini, Simone Paolo Ponzetto, Christoph Lange (ed.)), Springer-Verlag, May, 2016.2015
236. Eero Hyvönen, Jouni Tuominen, Esko Ikkala and Eetu Mäkelä: Ontology Services Based on Crowdsourcing: Case National Gazetteer of Historical Places. Proceedings of 14th International Semantic Web Conference 2015 (ISWC 2015), Posters and Demos, CEUR-WS Proceedings, 2015.
237. Eero Hyvönen, Jouni Tuominen, Eetu Mäkelä, Jérémie Dutruit, Kasper Apajalahti, Erkki Heino, Petri Leskinen and Esko Ikkala: Second World War on the Semantic Web: The WarSampo Project and Semantic Portal. Proceedings of 14th International Semantic Web Conference 2015 (ISWC 2015), Posters and Demos, CEUR-WS Proceedings, 2015.

238. Tuukka Ruotsalo and Eero Hyvönen: Exploiting Semantic Annotations for Domain-Specific Entity Search. *Advances in Information Retrieval, ECIR2015, LNCS 9022*, pp. 358-369, Springer-Verlag, March, 2015.

## 2014

239. Matias Frosterus, Jouni Tuominen and Eero Hyvönen: Facilitating Re-use of Legal Data in Applications--Finnish Law as a Linked Open Data Service. 2014. Submitted.
240. Esko Ikkala, Eetu Mäkelä and Eero Hyvönen: TourRDF: Representing, Enriching, and Publishing Curated Tours Based on Linked Data. 19th International Conference of Knowledge Engineering and Management (EKAW 2014), Demo and Poster Papers, November, 2014.
241. Osma Suominen, Sini Pessala, Jouni Tuominen, Mikko Lappalainen, Susanna Nykyri, Henri Ylikotila, Matias Frosterus and Eero Hyvönen: Deploying National Ontology Services: From ONKI to Finto. ISWC 2014, Industrial Track Proceedings, 2014.
242. Eero Hyvönen, Miika Alonen, Esko Ikkala and Eetu Mäkelä: Semantic National Biography: An Event-based Approach to Publishing Life Stories as Linked Data. March, 2014. Satellite Proceedings of the ISWC 2014, Springer-Verlag, 2014.
243. Eetu Mäkelä and Eero Hyvönen: SPARQL SAHA, a Configurable Linked Data Editor and Browser as a Service. Proceedings of the ESWC 2014 demonstration track, Springer-Verlag, 2014.
244. Eero Hyvönen, Jouni Tuominen, Miika Alonen and Eetu Mäkelä: Linked Data Finland: A 7-star Model and Platform for Publishing and Re-using Linked Datasets. Proceedings of ESWC 2014 Demo and Poster Papers, Springer-Verlag, May, 2014.
245. Mikko Koho, Eero Hyvönen and Aleksi Lehikoinen: Ornithology Based on Linking Bird Observations with Weather Data. Proceedings of the 4th Workshop on Semantic Publishing (SePublica), ESWC 2014, CEUR Workshop Proceedings, 2014. Vol-1155.

## 2013

246. Matias Frosterus, Jouni Tuominen, Sini Pessala, Osma Suominen and Eero Hyvönen: Managing a Linked Open Ontology Cloud for the Web of Data. 2013. Submitted for review.
247. Eero Hyvönen, Miika Alonen, Mikko Koho and Jouni Tuominen: BirdWatch--Supporting Citizen Scientists for Better Linked Data Quality for Biodiversity Management. Proceedings of the First International Workshop on Semantics for Biodiversity (S4BioDiv), ESWC 2013, CEUR Workshop Proceedings, Vol 979, <http://www.ceur-ws.org/Vol-979>, Montpellier, France, May, 2013.
248. Miika Alonen, Tomi Kauppinen, Osma Suominen and Eero Hyvönen: Exploring the Linked University Data With Visualization Tools. Proceedings of the 10th Extended Semantic Web Conference ESWC 2013, Springer-Verlag, Montpellier, France, May, 2013.

249. Matias Frosterus, Jouni Tuominen, Mika Wahlroos and Eero Hyvönen: The Finnish Law as a Linked Data Service. Poster Proceedings of ESWC 2013, Montpellier, France, May, 2013.
250. Jouni Tuominen, Nina Laureenne, Mikko Koho and Eero Hyvönen: The Birds of the World Ontology AVIO. Poster Proceedings of ESWC 2013, Montpellier, France, May, 2013.
251. Matias Frosterus, Jouni Tuominen, Sini Pessala, Katri Seppälä and Eero Hyvönen: Linked Open Ontology Cloud KOKO--Managing a System of Cross-domain Lightweight Ontologies. Poster Proceedings of ESWC 2013, Montpellier, France, May, 2013.
252. Jouni Tuominen, Nina Laureenne and Eero Hyvönen: Publishing and Using Plant Names as an Ontology Service. Proceedings of the First International Workshop on Semantics for Biodiversity (S4BioDiv), ESWC 2013, CEUR Workshop Proceedings, <http://ceur-ws.org/>, Montpellier, France, May, 2013.
253. Sven Buschbeck, Raphael Troncy, Anthony Jameson, Houda Khouf, Adrian Spirescu, Osma Suominen, Tanja Schneeberger and Eero Hyvönen: Parallel Faceted Browsing. Proceedings of CHI 2013, Extended Abstracts, Paris, 2013, Association for Computing Machinery (ACM), 2013.

## 2012

254. Jouni Tuominen, Nina Laureenne and Eero Hyvönen: An Ontology Model and Service for Managing Scientific and Common Names of Plants. Poster and Demo proceedings of the 2nd Joint International Semantic Technology Conference (JIST2012), Nara, Japan, December, 2012.
255. Osma Suominen and Eero Hyvönen: Improving the Quality of SKOS Vocabularies with Skosify. Proceedings of the 18th International Conference on Knowledge Engineering and Knowledge Management (EKAW 2012), Springer-Verlag, Galway, Ireland, October, 2012.
256. Kim Viljanen, Jouni Tuominen, Eetu Mäkelä and Eero Hyvönen: Normalized Access to Ontology Repositories. Proceedings of the Sixth International Conference on Semantic Computing (IEEE ICSC 2012), IEEE Press, Palermo, Italy, September, 2012.
257. Eetu Mäkelä, Kaisa Hypén and Eero Hyvönen: Improving Fiction Literature Access by Linked Open Data -Based Collaborative Knowledge Storage - the BookSampo Project. World Library and Information Congress: 78th IFLA General Conference and Assembly, Helsinki, IFLA, <http://conference.ifla.org/ifla78>, August, 2012.
258. Thea Lindquist, Eero Hyvönen, Juha Törnroos, Eetu Mäkelä: Leveraging linked data to enhance subject access - A case study of the University of Colorado Boulder's World War I collection online. World Library and Information Congress: 78th IFLA General Conference and Assembly, Helsinki, IFLA, <http://conference.ifla.org/ifla78>, August, 2012.
259. Eero Hyvönen, Thea Lindquist, Juha Törnroos and Eetu Mäkelä: History on the Semantic Web as Linked Data - An Event Gazetteer and Timeline for the World

War I. Proceedings of CIDOC 2012 - Enriching Cultural Heritage, Helsinki, Finland, CIDOC, <http://www.cidoc2012.fi/en/cidoc2012/programme>, June, 2012.

260. Suvi Kettula and Eero Hyvönen: Process-centric Cataloguing of Intangible Cultural Heritage. Proceedings of CIDOC 2012 - Enriching Cultural Heritage, Helsinki, Finland, CIDOC, <http://www.cidoc2012.fi/en/cidoc2012/programme>, June, 2012.
261. Eero Hyvönen, Aleks Lindblad and Eetu Mäkelä: TravelSampo System for Creating Mobile Audio Guide Tours Enriched with Linked Data. Proceedings of CIDOC 2012 - Enriching Cultural Heritage, Helsinki, Finland, CIDOC, <http://www.cidoc2012.fi/en/cidoc2012/programme>, June, 2012.

## 2011

262. Eetu Mäkelä, Kaisa Hypén, and Eero Hyvönen: BookSampo--Lessons Learned in Creating a Semantic Portal for Fiction Literature. Proceedings of ISWC 2011, Bonn, Germany, Springer-Verlag, 2011.
263. Eetu Mäkelä, Aleks Lindblad, Jari Väättäinen, Rami Alatalo, Osma Suominen and Eero Hyvönen: Discovering Places of Interest through Direct and Indirect Associations in Heterogeneous Sources -- The TravelSampo System. 2011. Accepted for publication, Terra Cognita Workshop, ISWC 2011.
264. Sini Pessala, Katri Seppälä, Osma Suominen, Matias Frosterus, Jouni Tuominen and Eero Hyvönen: MUTU: An Analysis Tool for Maintaining a System of Hierarchically Linked Ontologies. 2011. Accepted for publication, Ontologies Come of Age Workshop (OCAS 2011) at ISWC 2011, Bonn, Germany, October, 2011.
265. Matias Frosterus, Eero Hyvönen and Mika Wahlroos: Extending Ontologies with Free Keywords in a Collaborative Annotation Environment. Accepted for publication, Ontologies Come of Age Workshop (OCAS 2011) at ISWC 2011, Bonn, Germany, October, 2011.
266. Katariina Nyberg, Matias Frosterus and Eero Hyvönen: Linking Data for Industrial Knowledge Management – A Case Study. ESWC 2011, OSEMA Workshop paper, 2011.
267. Reetta Sinkkilä, Osma Suominen and Eero Hyvönen: Automatic Semantic Subject Indexing of Web Documents in Highly Inflected Languages. Proceedings of the 8th Extended Semantic Web Conference (ESWC 2011), Springer-Verlag, 2011.
268. Jouni Tuominen, Nina Laurenne and Eero Hyvönen: Biological Names and Taxonomies on the Semantic Web - Managing the Change in Scientific Conception. Proceedings of the 8th Extended Semantic Web Conference (ESWC 2011), Springer-Verlag, 2011.
269. Matias Frosterus, Eero Hyvönen and Joonas Laitio: DataFinland - A Semantic Portal for Open and Linked Dataset. Proceedings of the 8th Extended Semantic Web Conference (ESWC 2011), Springer-Verlag, 2011.

## 2010

270. Nina Laurenne, Jouni Tuominen, Mikko Koho and Eero Hyvönen: Modeling and Publishing Biological Names and Classifications on the Semantic Web. TDWG

- 2010 Annual Conference of the Taxonomic Databases Working Group, Woods Hole, Massachusetts, USA, September, 2010. Poster abstract.
271. Jouni Tuominen, Matias Frosterus, Nina Laurenne and Eero Hyvönen: Publishing Biological Classifications as SKOS Vocabulary Services on the Semantic Web. TDWG 2010 Annual Conference of the Taxonomic Databases Working Group, Woods Hole, Massachusetts, USA, September, 2010. Demonstration abstract, under review.
272. Nina Laurenne, Jouni Tuominen, Mikko Koho and Eero Hyvönen: Taxon Meta-Ontology TaxMeOn - Towards an Ontology Model for Managing Changing Scientific Names in Time. TDWG 2010 Annual Conference of the Taxonomic Databases Working Group, Woods Hole, Massachusetts, USA, September, 2010. Contributed abstract.
273. Katariina Nyberg, Tapani Raiko, Teemu Tiinanen, and Eero Hyvönen: Document Classification Utilizing Ontologies and Relations between Documents. Proceedings of Eighth Workshop on Mining and Learning with Graphs 2010, Washington D.C., USA, July, 2010.
274. Jussi Kurki and Eero Hyvönen: Collaborative Metadata Editor Integrated with Ontology Services and Faceted Portals. Workshop on Ontology Repositories and Editors for the Semantic Web (ORES 2010), the Extended Semantic Web Conference ESWC 2010, Heraklion, Greece, CEUR Workshop Proceedings, <http://ceur-ws.org/>, June, 2010.
275. Kim Viljanen, Jouni Tuominen, Mikko Salonoja and Eero Hyvönen: Global Access to Distributed Ontology Repositories. Poster Papers, the Extended Semantic Web Conference ESWC 2010, Heraklion, Greece, June, 2010.
276. Kim Viljanen, Jouni Tuominen, Mikko Salonoja and Eero Hyvönen: Linked Open Ontology Services. Workshop on Ontology Repositories and Editors for the Semantic Web (ORES 2010), the Extended Semantic Web Conference ESWC 2010, CEUR Workshop Proceedings, <http://ceur-ws.org/>, Heraklion, Greece, June, 2010.
277. Eero Hyvönen, Tuomas Palonen, Joeli Takala: Narrative Semantic Web -- Case National Finnish Epic Kalevala. Poster Papers, the 7th Extended Semantic Web Conference, Heraklion, Greece, June, 2010.
278. Jouni Tuominen, Mikko Salonoja, Kim Viljanen and Eero Hyvönen: A User Interface for Ontology Repositories. Workshop on Ontology Repositories and Editors for the Semantic Web (ORES 2010), the Extended Semantic Web Conference ESWC 2010, CEUR Workshop Proceedings, <http://ceur-ws.org/>, Heraklion, Greece, June, 2010.
279. Osma Suominen and Eero Hyvönen: Expressing and Aggregating Rich Event Descriptions. Proceedings of the 6th Workshop on Scripting and Development on the Semantic Web, Heraklion, Greece, May, 2010.
- 2009**
280. Jussi Kurki and Eero Hyvönen: Authority Control of People and Organizations on the Semantic Web. Proceedings of the International Conferences on Digital Libraries and the Semantic Web 2009 (ICSD2009), September, 2009. Trento, Italy.

281. Matias Frosterus and Eero Hyvönen: Bridging the Search Gap between the Web of Pages and Web of Data by Combining Ontological Document Expansion with Text Search. Proceedings of the International Conferences on Digital Libraries and the Semantic Web 2009 (ICSD2009), Trento, Italy, September, 2009.
282. Eeva Ahonen and Eero Hyvönen: Publishing Historical Texts on the Semantic Web - A Case Study. Proceedings of the Third IEEE International Conference on Semantic Computing (ICSC2009), Berkeley, CA, USA, September, 2009.
283. Tuukka Ruotsalo, Eetu Mäkelä, Tomi Kauppinen, Eero Hyvönen, Krister Haav, Ville Rantala, Matias Frosterus, Nima Dokoochaki and Mihhail Matskin: Smartmuseum: Personalized Context-aware Access to Digital Cultural Heritage. Proceedings of the International Conferences on Digital Libraries and the Semantic Web 2009 (ICSD2009), September, 2009. Trento, Italy.
284. Osma Suominen, Kim Viljanen and Eero Hyvönen: TerveSuomi-portaalin metatietomäärittely (HealthFinland portal metadata specification). Jun 18, 2009.
285. Eero Hyvönen, Eetu Mäkelä, Tomi Kauppinen, Olli Alm, Jussi Kurki, Tuukka Ruotsalo, Katri Seppälä, Joeli Takala, Kimmo Puputti, Heini Kuittinen, Kim Viljanen, Jouni Tuominen, Tuomas Palonen, Matias Frosterus, Reetta Sinkkilä, Panu Paakkarinen, Joonas Laitio, Katariina Nyberg: CultureSampo - A National Publication System of Cultural Heritage on the Semantic Web 2.0. Proceedings of the 6th European Semantic Web Conference (ESWC2009), Heraklion, Greece, May 31 - June 4, 2009. Springer-Verlag.
286. Tomi Kauppinen, Kimmo Puputti, Panu Paakkarinen, Heini Kuittinen, Jari Väättäinen and Eero Hyvönen: Learning and Visualizing Cultural Heritage Connections between Places on the Semantic Web. Proceedings of the Workshop on Inductive Reasoning and Machine Learning on the Semantic Web (IRMLeS2009), The 6th Annual European Semantic Web Conference (ESWC2009), May 31 - June 4, 2009.
287. Jouni Tuominen, Matias Frosterus, Kim Viljanen and Eero Hyvönen: ONKI SKOS Server for Publishing and Utilizing SKOS Vocabularies and Ontologies as Services. Proceedings of the 6th European Semantic Web Conference (ESWC 2009), Heraklion, Greece, May 31 - June 4, 2009. Springer-Verlag.
288. Kim Viljanen, Jouni Tuominen and Eero Hyvönen: Ontology Libraries for Production Use: The Finnish Ontology Library Service ONKI. Proceedings of the 6th European Semantic Web Conference (ESWC 2009), Heraklion, Greece, May 31 - June 4, 2009. Springer-Verlag.
289. Jouni Tuominen, Tomi Kauppinen, Kim Viljanen and Eero Hyvönen: Ontology-Based Query Expansion Widget for Information Retrieval. Proceedings of the 5th Workshop on Scripting and Development for the Semantic Web (SFSW 2009), 6th European Semantic Web Conference (ESWC 2009), Heraklion, Greece, May 31 - June 4, 2009.
290. Eero Hyvönen, Eetu Mäkelä, Tomi Kauppinen, Olli Alm, Jussi Kurki, Tuukka Ruotsalo, Katri Seppälä, Joeli Takala, Kimmo Puputti, Heini Kuittinen, Kim Viljanen, Jouni Tuominen, Tuomas Palonen, Matias Frosterus, Reetta Sinkkilä, Panu Paakkarinen, Joonas Laitio, Katariina Nyberg: CultureSampo - Finnish

- Culture on the Semantic Web 2.0. Thematic Perspectives for the End-user. Proceedings, Museums and the Web 2009, Indianapolis, USA, April 15-18, 2009.
291. Eero Hyvönen, Eetu Mäkelä, Tomi Kauppinen, Olli Alm, Jussi Kurki, Tuukka Ruotsalo, Katri Seppälä, Joeli Takala, Kimmo Puputti, Heini Kuittinen, Kim Viljanen, Jouni Tuominen, Tuomas Palonen, Matias Frosterus, Reetta Sinkkilä, Panu Paakkari, Joonas Laitio, Katariina Nyberg: CultureSampo - Finnish Cultural Heritage Collections on the Semantic Web 2.0. Proceedings of the 1st International Symposium on Digital Humanities for Japanese Arts and Cultures (DH-JAC-2009), Ritsumeikan University, Kyoto, Japan, March, 2009.
  292. Tomi Kauppinen, Heini Kuittinen, Jouni Tuominen, Katri Seppälä and Eero Hyvönen: Extending an Ontology by Analyzing Annotation Co-occurrences in a Semantic Cultural Heritage Portal. Proceedings of the ASWC 2008 Workshop on Collective Intelligence (ASWC-CI 2008) organized as a part of the 3rd Asian Semantic Web Conference (ASWC 2008), Bangkok, Thailand, February 2-5, 2009.
  293. Marco Berni, Nima Dokoohaki, Elena Fani, Eero Hyvönen, Tomi Kauppinen, Mihhail Matskin, Eetu Mäkelä, Tuukka Ruotsalo: SmartMuseum: a cultural heritage knowledge exchange platform based on ontology oriented context aware and profiling systems. Proceedings of Electronic Imaging & the Visual Arts (EVA) Conference, Florence, Italy, 28-30 April, 2009.
  294. Tomi Kauppinen, Tuukka Ruotsalo, Frédéric Weis, Sylvain Roche, Marco Berni, Eetu Mäkelä, Nima Dokoohaki and Eero Hyvönen: SmartMuseum Knowledge Exchange Platform for Cross-European Cultural Content Integration and Mobile Publication. Proceedings of the CULTURAL HERITAGE on line Empowering users: an active role for user communities, December 15-16, 2009.

## 2008

295. Kim Viljanen, Jouni Tuominen, Teppo Käsälä and Eero Hyvönen: Distributed Semantic Content Creation and Publication for Cultural Heritage Legacy Systems. *Proceedings of the 2008 IEEE International Conference on Distributed Human-Machine Systems*, IEEE Press, Athens, Greece, March 9-12, 2008.
296. Riikka Henriksson, Tomi Kauppinen and Eero Hyvönen: Core Geographical Concepts: Case Finnish Geo-Ontology. Location and the Web (LocWeb) 2008 workshop, 17th International World Wide Web Conference WWW 2008, ACM International Conference Proceeding Series; Vol. 300, Pages 57-60, Beijing, China, April 21-25, 2008.
297. Eero Hyvönen, Kim Viljanen, Osma Suominen, Eija Hukka: HealthFinland - Publishing Health Promotion Information on the Semantic Web. Proceedings of DrMED 2008: International Workshop on Describing Medical Web Resources. The 21st International Congress on the European Federation for Medical Informatics (MIE 2008), Göteborg, Sweden, May, 2008.
298. Kim Viljanen, Jouni Tuominen and Eero Hyvönen: Publishing and Using Ontologies as Mash-Up Services. Proceedings of the 4th Workshop on Scripting for the Semantic Web (SFSW2008), 5th European Semantic Web Conference 2008 (ESWC 2008), Tenerife, Spain, June 1-5, 2008.
299. Tomi Kauppinen, Riikka Henriksson, Reetta Sinkkilä, Robin Lindroos, Jari Väätäinen and Eero Hyvönen: Ontology-based Disambiguation of Spatiotemporal

- Locations. Proceedings of the 1st international workshop on Identity and Reference on the Semantic Web (IRSW2008), 5th European Semantic Web Conference 2008 (ESWC 2008), Tenerife, Spain, June 1-5, 2008.
300. Eero Hyvönen, Eetu Mäkelä, Tuukka Ruotsalo, Tomi Kauppinen, Olli Alm, Jussi Kurki, Joeli Takala, Kimmo Puputti and Heini Kuittinen: CultureSampo-Finnish Culture on the Semantic Web. Posters of the 5th European Semantic Web Conference 2008 (ESWC 2008), Tenerife, Spain, June 1-5, 2008.
  301. Tomi Kauppinen, Jari Väätäinen and Eero Hyvönen: Creating and Using Geospatial Ontology Time Series in a Semantic Cultural Heritage Portal. S. Bechhofer et al.(Eds.): Proceedings of the 5th European Semantic Web Conference 2008 ESWC 2008, LNCS 5021, Tenerife, Spain, pp. 110-123, June 1-5, 2008.
  302. Reetta Sinkkilä, Eetu Mäkelä, Tomi Kauppinen and Eero Hyvönen: Combining Context Navigation with Semantic Autocompletion to Solve Problems in Concept Selection. First International Workshop on Semantic Metadata Management and Applications, SeMMA 2008, Located at the Fifth European Semantic Web Conference (ESWC 2008), Tenerife, Spain, June 2nd, 2008. Proceedings (Khalid Belhajjame, Mathieu d Aquin, Peter Haase and Paolo Missier (eds.)), CEUR Workshop Proceedings, vol. 346, pp. 61-68, CEUR-WS.org, Tenerife, Spain, June 1-5, 2008.
  303. Eero Hyvönen, Kim Viljanen, Jouni Tuominen and Katri Seppälä: Building a National Semantic Web Ontology and Ontology Service Infrastructure--The FinnONTO Approach. Proceedings of the European Semantic Web Conference ESWC 2008, Springer, Tenerife, Spain, June 1-5, 2008.
  304. Jouni Tuominen, Matias Frosterus, Kim Viljanen and Eero Hyvönen: ONKI-SKOS - Publishing and Utilizing Thesauri in the Semantic Web. AI and Machine Consciousness - Proceedings of the 13th Finnish Artificial Intelligence Conference STeP 2008, Espoo, Finland, August 20-22, 2008.
  305. Eero Hyvönen: FinnONTO-malli kansallisen semanttisen webin sisältöinfrastruktuurin perustaksi - visio ja sen toteutus (FinnONTO model as the basis for a national semantic web infrastructure - vision and its implementation). Paper presented at the publication event of the Finnish Ontology Library Service
  306. Tomi Kauppinen, Heini Kuittinen, Jouni Tuominen, Katri Seppälä and Eero Hyvönen: Extending an Ontology by Analyzing Annotation Co-occurrences in a Semantic Cultural Heritage Portal. To appear in Proceedings of the ASWC 2008 Workshop on Collective Intelligence (ASWC-CI 2008) organized as a part of the 3rd Asian Semantic Web Conference (ASWC 2008), Bangkok, Thailand, December 8-11, 2008.
  307. Eero Hyvönen, Kim Viljanen, Jouni Tuominen, Katri Seppälä, Tomi Kauppinen, Matias Frosterus, Reetta Sinkkilä, Jussi Kurki, Olli Alm, Eetu Mäkelä and Joonas Laitio: National Ontology Infrastructure Service ONKI. Oct 1, 2008. Submitted for review.
  308. Eero Hyvönen, Eetu Mäkelä, Tomi Kauppinen, Olli Alm, Jussi Kurki, Tuukka Ruotsalo, Katri Seppälä Kim Viljanen, Jouni Tuominen, Tuomas Palonen, Matias Frosterus, Reetta Sinkkilä, Panu Paakkari, Joonas Laitio, Katariina Nyberg: CultureSampo - A Collective Memory of Finnish Cultural Heritage on the



- Semantic Web 2.0. Semantic Computing Research Group, Helsinki University of Technology and University of Helsinki, Sept 29, 2008.
309. Osma Suominen, Eero Hyvönen, Kim Viljanen, Eija Hukka: HealthFinland - A National Publication System for Semantic Health Information. Semantic Computing Research Group, Helsinki University of Technology and University of Helsinki, Sept 29, 2008.
  310. Eero Hyvönen: Kulttuurisampo - suomalainen kulttuuri semanttisessa webissä. Muistiorganisaatioiden ja kansalaisten yhteisöllinen kansallinen julkaisujärjestelmä (CultureSampo - Finnish culture on the Semantic Web. A national collaborative Semantic Web 2.0 portal for memory organizations and citizens.). Paper presented at the publication event of the CultureSampo portal, National Museum, Helsinki, Finland, Sept 25, 2008.
  311. Osma Suominen, Eero Hyvönen, Kim Viljanen, Eija Hukka: HealthFinland - A National Publication System for Semantic Health Information. Semantic Computing Research Group, Helsinki University of Technology and University of Helsinki, Sept 29, 2008. System description for the Semantic Web Challenge 2008, ISWC-2008, Karlsruhe, Germany.
  312. Eero Hyvönen, Eetu Mäkelä, Tomi Kauppinen, Olli Alm, Jussi Kurki, Tuukka Ruotsalo, Katri Seppälä Kim Viljanen, Jouni Tuominen, Tuomas Palonen, Matias Frosterus, Reetta Sinkkilä, Panu Paakkarinen, Joonas Laitio, Katariina Nyberg: CultureSampo - A Collective Memory of Finnish Cultural Heritage on the Semantic Web 2.0. Semantic Computing Research Group, Helsinki University of Technology and University of Helsinki, Sept 29, 2008. System description for the Semantic Web Challenge 2008, ISWC-2008, Karlsruhe, Germany.
  313. Eero Hyvönen, Kim Viljanen, Jouni Tuominen, Katri Seppälä, Tomi Kauppinen, Matias Frosterus, Reetta Sinkkilä, Jussi Kurki, Olli Alm, Eetu Mäkelä and Joonas Laitio: National Ontology Infrastructure Service ONKI. Oct 1, 2008. Paper, submitted.
  314. Tomi Kauppinen, Heini Kuittinen, Jouni Tuominen, Katri Seppälä and Eero Hyvönen: Extending an Ontology by Analyzing Annotation Co-occurrences in a Semantic Cultural Heritage Portal. To appear in Proceedings of the ASWC 2008 Workshop on Collective Intelligence (ASWC-CI 2008) organized as a part of the 3rd Asian Semantic Web Conference (ASWC 2008), Bangkok, Thailand, December 8-11, 2008.

## 2007

315. Eetu Mäkelä, Osma Suominen and Eero Hyvönen: Automatic Exhibition Generation Based on Semantic Cultural Content. Proceedings of the Cultural Heritage on the Semantic Web Workshop at the 6th International Semantic Web Conference (ISWC 2007), Busan, Korea, November 12, 2007.
316. Eero Hyvönen, Olli Alm and Heini Kuittinen: Using an Ontology of Historical Events in Semantic Portals for Cultural Heritage. Proceedings of the Cultural Heritage on the Semantic Web Workshop at the 6th International Semantic Web Conference (ISWC 2007), Busan, Korea, November 12, 2007.

317. Tuukka Ruotsalo and Eero Hyvönen: An Event-based Approach for Semantic Metadata Interoperability. Proceedings of the 6th International Semantic Web Conference (ISWC 2007), Busan, Korea, Springer-Verlag, November 11-15, 2007.
318. Eetu Mäkelä, Tuukka Ruotsalo and Eero Hyvönen: Automatic Exhibition Generation Based on Semantic Cultural Content. Poster proceedings of the 6th International Semantic Web Conference, Busan, Korea, November 11-15, 2007.
319. Eetu Mäkelä, Reetta Sinkkilä and Eero Hyvönen: Combining Cross-ontology Navigation with Semantic Autocompletion. Poster proceedings of the 6th International Semantic Web Conference, Busan, Korea, November 11-15, 2007.
320. Eetu Mäkelä, Tuukka Ruotsalo and Eero Hyvönen: Domain-Centric View-Based Search. Poster proceedings of the 6th International Semantic Web Conference, Busan, Korea, November 11-15, 2007.
321. Eetu Mäkelä, Kim Viljanen, Olli Alm, Jouni Tuominen, Onni Valkeapää, Tomi Kauppinen, Jussi Kurki, Reetta Sinkkilä, Teppo Känsälä, Robin Lindroos, Osma Suominen, Tuukka Ruotsalo and Eero Hyvönen: Enabling the Semantic Web with Ready-to-Use Web Widgets. Proceedings of the First Industrial Results of Semantic Technologies Workshop, ISWC2007, November 11, 2007.
322. Eero Hyvönen, Robin Lindroos, Tomi Kauppinen and Riikka Henriksson: An ontology service for geographical content. Poster Proceedings of the International Semantic Web Conference (ISWC 2007), Busan, Korea, Nov, 2007.
323. Eero Hyvönen, Kim Viljanen and Osma Suominen: HealthFinland - Finnish Health Information on the Semantic Web. Proceedings of the 6th International Semantic Web Conference (ISWC 2007), Busan, Korea, Springer-Verlag, Nov, 2007.
324. Jussi Kurki and Eero Hyvönen: Relational Semantic Search: Searching Social Paths on the Semantic Web. Poster Proceedings of the International Semantic Web Conference (ISWC 2007), Busan, Korea, Nov, 2007.
325. Eero Hyvönen, Joeli Takala, Olli Alm, Tuukka Ruotsalo and Eetu Mäkelä: Semantic Kalevala - Accessing Cultural Contents Through Semantically Annotated Stories. Proceedings of the Cultural Heritage on the Semantic Web Workshop at the 6th International Semantic Web Conference (ISWC 2007), Busan, Korea, Nov, 2007.
326. Tuukka Ruotsalo and Eero Hyvönen: A Method for Determining Ontology-Based Semantic Relevance. Proceedings of the International Conference on Database and Expert Systems Applications DEXA 2007, Regensburg, Germany, Springer, September 3-7, 2007.
327. Eero Hyvönen, Kim Viljanen, Eetu Mäkelä, Tomi Kauppinen, Tuukka Ruotsalo, Onni Valkeapää, Katri Seppälä, Osma Suominen, Olli Alm, Robin Lindroos, Teppo Känsälä, Riikka Henriksson, Matias Frosterus, Jouni Tuominen, Reetta Sinkkilä and Jussi Kurki: Elements of a National Semantic Web Infrastructure - Case Study Finland on the Semantic Web (Invited paper). Proceedings of the First International Semantic Computing Conference (IEEE ICSC 2007), Irvine, California, September, 2007. IEEE Press.
328. Onni Valkeapää, Olli Alm and Eero Hyvönen: Efficient Content Creation on the Semantic Web Using Metadata Schemas with Domain Ontology Services (System

- Description). Proceedings of the European Semantic Web Conference ESWC 2007, Innsbruck, Austria, Springer, June 4-5, 2007.
329. Kim Viljanen, Eero Hyvönen, Eetu Mäkelä, Osma Suominen and Jouni Tuominen: Mash-up Ontology Services for the Semantic Web. Demo track at the European Semantic Web Conference ESWC 2007, Innsbruck, Austria, June 4-5, 2007.
  330. Olli Alm, Eero Hyvönen and Antti Vehviläinen: Opas: An ontology-based library help desk service. Demo track at the European Semantic Web Conference ESWC 2007, Innsbruck, Austria, June 4-5, 2007.
  331. Osma Suominen, Kim Viljanen and Eero Hyvönen: Semantic Faceted Search in a Citizens Health Portal. Demo track at the European Semantic Web Conference ESWC 2007, Innsbruck, Austria, June 4-5, 2007.
  332. Tomi Kauppinen, Christine Deichstetter and Eero Hyvönen: Temp-O-Map: Ontology-based Search and Visualization of Spatio-Temporal Maps. Demo track at the European Semantic Web Conference ESWC 2007, Innsbruck, Austria, Springer, June 4-5, 2007.
  333. Osma Suominen, Kim Viljanen and Eero Hyvönen: User-centric Faceted Search for Semantic Portals. Proceedings of the European Semantic Web Conference ESWC 2007, Innsbruck, Austria, Springer, June 4-5, 2007.
  334. Robin Lindroos, Tomi Kauppinen, Riikka Henriksson and Eero Hyvönen: ONKI-Paikka: An Ontology Service for Geographical Data. Helsinki, Apr, 2007.
- 2006**
335. Eero Hyvönen: Semantic Web Applications in the Public Sector in Finland - Building the Basis for a National Semantic Web Infrastructure. 2006. Paper presented at the Norwegian Semantic Days, April 26-27, Stavanger, Norway.
  336. Onni Valkeapää and Eero Hyvönen: A Browser-based Semantic Annotation Tool for Distributed Content Creation. June 16, 2006. Poster paper, 1st Asian Semantic Web Conference (ASWC2006).
  337. Antti Vehviläinen, Olli Alm and Eero Hyvönen: Combining Case-Based Reasoning and Semantic Indexing in a Question-Answer Service. June 20, 2006. Poster paper, 1st Asian Semantic Web Conference (ASWC2006).
  338. Markus Holi, Petri Lindgren, Osma Suominen, Kim Viljanen and Eero Hyvönen: TerveSuomi.fi - A Semantic Health Portal for Citizens.
  339. Onni Valkeapää and Eero Hyvönen: Semantic Annotation with Browser-based Annotation Tool SAHA. July 17, 2006. Demo paper, 1st Asian Semantic Web Conference (ASWC2006).
  340. Teppo Käsälä and Eero Hyvönen: A Semantic View-based Portal Utilizing Learning Object Metadata. August, 2006. 1st Asian Semantic Web Conference (ASWC2006), Semantic Web Applications and Tools Workshop.
  341. Markus Holi, Eero Hyvönen and Petri Lindgren: Integrating tf-idf Weighting with Fuzzy View-Based Search. Proceedings of the ECAI Workshop on Text-Based Information Retrieval (TIR-06), Riva del Garda, Italy, Aug, 2006.

342. Markus Holi and Eero Hyvönen: Fuzzy View-Based Semantic Search. Proceedings of the 1st Asian Semantic Web Conference (ASWC2006), Beijing, China, Springer-Verlag, September 3-7, 2006.
343. Eero Hyvönen and Eetu Mäkelä: Semantic Autocompletion. Proceedings of the first Asia Semantic Web Conference (ASWC 2006), Beijing, Springer-Verlag, New York, August 4-9, 2006.
344. Kim Viljanen, Teppo Käsälä, Eero Hyvönen and Eetu Mäkelä: ONTODELLA - A Projection and Linking Service for Semantic Web Applications. Proceedings of the 17th International Conference on Database and Expert Systems Applications (DEXA 2006), Krakow, Poland, IEEE, September 4-8, 2006.
345. Eero Hyvönen, Tuukka Ruotsalo, Thomas Häggström, Mirva Salminen, Miikka Junnila, Mikko Virkkilä, Mikko Haaramo, Eetu Mäkelä, Tomi Kauppinen and Kim Viljanen: CultureSampo-Finnish Culture on the Semantic Web: The Vision and First Results. Developments in Artificial Intelligence and the Semantic Web - Proceedings of the 12th Finnish AI Conference STeP 2006, October 26-27, 2006.
346. Miikka Junnila, Eero Hyvönen and Mirva Salminen: Describing and Linking Cultural Semantic Content by Using Situations and Actions. Developments in Artificial Intelligence and the Semantic Web - Proceedings of the 12th Finnish AI Conference STeP 2006, October 26-27, 2006.
347. Eero Hyvönen, Tomi Kauppinen, Jukka Kortela, Mikko Laukkanen, Tapani Raiko and Kim Viljanen (eds.): Developments in Artificial Intelligence and the Semantic Web - Proceedings of the 12th Finnish AI Conference STeP 2006. Finnish AI Society, Finland, October 26-27, 2006.
348. Eero Hyvönen: FinnONTO-Building the Basis for a National Semantic Web Infrastructure in Finland. Developments in Artificial Intelligence and the Semantic Web - Proceedings of the 12th Finnish AI Conference STeP 2006, October 26-27, 2006.
349. Tomi Kauppinen, Riikka Henriksson, Jari Väätäinen, Christine Deichstetter and Eero Hyvönen: Ontology-based Modeling and Visualization of Cultural Spatio-temporal Knowledge. Developments in Artificial Intelligence and the Semantic Web - Proceedings of the 12th Finnish AI Conference STeP 2006, October 26-27, 2006.
350. Onni Valkeapää and Eero Hyvönen: A Browser-based Tool for Collaborative Distributed Annotation for the Semantic Web. September 26, 2006. 5th International Semantic Web Conference (ISWC 2006), proceedings of the Semantic Authoring and Annotation Workshop, Athens, GA, USA, November, 2006.
351. Antti Vehviläinen, Eero Hyvönen and Olli Alm: A Semi-Automatic Semantic Annotation and Authoring Tool for a Library Help Desk Service. 5th International Semantic Web Conference (ISWC 2006), proceedings of the first Semantic Authoring and Annotation Workshop, Athens, GA, USA, November, 2006.
352. Eetu Mäkelä, Eero Hyvönen and Samppa Saarela: Ontogator -- A Semantic View-based Search Engine Service for Web Applications. Proceedings of the 5th International Semantic Web Conference (ISWC 2006). Springer-Verlag, 2006.

**2005**

353. V. Komulainen, A. Valo, E. Hyvönen: A Collaborative Ontology Development and Service Framework ONKI. Proceeding of ESWC 2005, poster papers, Heraklion, Greece, 2005.
354. T. Kauppinen, E. Hyvönen: Modeling Coverage Between Geospatial Resources. Proceeding of ESWC 2005, poster papers, Heraklion, Greece, 2005. Best poster award ESWC-2005.
355. V. Komulainen, A. Valo, E. Hyvönen: A Tool for Collaborative Ontology Development for the Semantic Web, Proceedings of International Conference on Dublin Core and Metadata Applications (DC 2005), Madrid, Spain, 2005.
356. Eero Hyvönen, Arttu Valo, Ville Komulainen, Katri Seppälä, Tomi Kauppinen, Tuukka Ruotsalo, Mirva Salminen, and Anu Ylisalmi: Finnish National Ontologies for the Semantic Web -- Towards a Content and Service Infrastructure. Proceedings of International Conference on Dublin Core and Metadata Applications (DC 2005), Madrid, Spain, 2005.
357. Markus Holi, Eero Hyvönen Modeling Degrees of Conceptual Overlap in Semantic Web Ontologies. In: Proceedings of the ISWC Workshop on Uncertainty Reasoning for the Semantic Web, Galway, Ireland, November 7, 2005. Edited by: Paulo C. G. da Costa, Kathryn B. Laskey, Kenneth J. Laskey, Michael Pool. <http://CEUR-WS.org/Vol-173/>

**2004**

358. E. Hyvönen, M. Junnila, S. Kettula, E. Mäkelä, S. Saarela, M. Salminen, A. Syreeni, A. Valo, K. Viljanen: MuseumFinland—Finnish Museums on the Semantic Web. User's perspective. Selected Papers, Proceedings of Museums and the Web 2004 (MW2004), March 29 – April 3, 2004, Virginia, USA.
359. E. Hyvönen, M. Salminen, S. Kettula, M. Junnila: A content creation process for the semantic web. Proceedings of OntoLex: Ontologies and lexical resources in distributed environments, May 29, 2004.
360. E. Hyvönen, M. Junnila, S. Kettula, S. Saarela, M. Salminen, A. Syreeni, A. Valo, K. Viljanen: Publishing Collections in the Finnish Museums on the Semantic Web Portal—The MuseumFinland Portal. Proceedings of WWW2004, New York, poster papers, 2004.
361. E. Hyvönen, S. Saarela, K. Viljanen, E. Mäkelä, A. Valo, M. Salminen, S. Kettula, M. Junnila: A Semantic Portal for Publishing Museum Collections on the Web. Proceedings of ECAI/PAIS 2004, Valencia, Spain, 2004.
362. M. Laukkanen, K. Viljanen, M. Apiola, P. Lindgren, E. Hyvönen: Towards Ontology-Based Yellow Page Services. Proceedings of WWW2004 Workshop, Application, Design, Development, and Implementation Issues, New York, 2004. CEUR Workshop Proceedings, Vol 105, 2004.
363. E. Hyvönen, M. Holi, K. Viljanen: Designing and Creating a Web Site Based on RDF Content. Proceedings of WWW2004 Workshop, Application, Design, Development, and Implementation Issues, New York, 2004. CEUR Workshop Proceedings, Vol 105, 2004.

364. E. Makelä, E. Hyvönen, S. Saarela, K. Viljanen: OntoViews -- A Tool for Creating Semantic Web Portals. Proceedings of the 3rd International Semantic Web Conference (ISWC 2004), Hiroshima, Japan, 2004, Springer-Verlag.
  365. T. Korpilahti, E. Hyvönen: An Architecture for Collaborative Ontology Library Development. Proceedings of 16th European Conference on Artificial Intelligence (ECAI2004), Workshop on Application of Semantic Web Technologies to Web Communities, Valencia, Spain, 2004. CEUR Workshop Proceedings, Vol 107, 2004.
  366. E. Hyvönen, S. Saarela, K. Viljanen, E. Mäkelä, A. Valo, M. Salminen, S. Kettula, M. Junnila: A Cultural Community Portal for Publishing Museum Collections on the Semantic Web. Proceedings of 16th European Conference on Artificial Intelligence (ECAI2004), Workshop on Application of Semantic Web Technologies to Web Communities, Valencia, Spain, 2004. CEUR Workshop Proceedings, Vol 107, 2004.
  367. M. Holi, E. Hyvönen: Probabilistic Information Retrieval Based on Conceptual Overlap in Semantic Web Ontologies. Proceedings of the 11th Finnish AI Conference, Web Intelligence, vol 2., Finnish AI Society, Finland, 2004.
  368. T. Kauppinen, E. Hyvönen: Bridging the Semantic Gap between Ontology Versions. Proceedings of the 11th Finnish AI Conference, Web Intelligence, vol 2., Finnish AI Society, Finland, 2004.
  369. E. Hyvönen, T. Kauppinen, M. Salminen, K. Viljanen, P. Ala-Siuru (eds): Proceedings of the 11th Finnish AI Conference, vol 2., Web Intelligence, Finnish AI Society, Finland, 2004.
  370. E. Hyvönen, M. Salminen, M. Junnila: Annotation of Heterogeneous Database Content for the Semantic Web. Proceedings of the 4th International Workshop on Knowledge Markup and Semantic Annotation (SemAnnot 2004), Hiroshima, Japan, Nov. 8, 2004. (Earlier version published in the proceedings of the 11th Finnish AI Conference, Web Intelligence, vol 2., Finnish AI Society, Finland, 2004.)
- 2003**
371. E. Hyvönen, S. Saarela, A. Styrman, K. Viljanen: Ontology-Based Image Retrieval. Poster Proceedings, The Twelfth International World Wide Web Conference, 20-24 May 2003, Budapest, Hungary.
  372. E. Hyvönen, K. Viljanen, A. Häätinen: Yellow Pages on the Semantic Web. Proceedings, Posters, The Twelfth International World Wide Web Conference, 20-24 May 2003, Budapest, Hungary.
  373. E. Hyvönen, S. Kettula, V. Raatikka, S. Saarela, K. Viljanen: Finnish Museums on the Semantic Web. Proceedings, Posters, The Twelfth International World Wide Web Conference, 20-24 May 2003, Budapest, Hungary.
  374. E. Hyvönen, M. Junnila, S. Kettula, S. Saarela, M. Salminen, A. Syreeni, A. Valo, K. Viljanen: Publishing Collections in the "Finnish Museums on the Semantic Web" Portal—First Results. Paper presented at the symposium Arts and Humanities in the Digital Domain: Towards Web based Culture and Science, Salzburg, Austria, Oct. 6-7, 2003. Proceedings of XML Finland 2003, Oct. 30-31, 2003, Kuopio, Finland.

375. E. Hyvönen, A. Valo, K. Viljanen, M. Holi: Publishing Semantic Web Content as Semantically Linked HTML Pages. Proceedings of XML Finland 2003, 30-31.10.2003, Kuopio, Finland.
376. E. Hyvönen, S. Saarela, K. Viljanen: Ontogator: Combining View- and Ontology Based Search with Semantic Browsing. Paper presented at the international SEPIA Conference, Helsinki, Sept. 18-20, 2003. Proceedings of XML Finland 2003, Oct. 30-31, 2003, Kuopio, Finland.

**2002**

377. E. Hyvönen: Semantic Web -- The new Internet of meanings. In: Semantic Web Kick-Off in Finland - Vision, Technologies, Research, and Applications, HIIT Publications, 2002-001, Helsinki Institute for Information Technology (HIIT), Helsinki, Finland, 2002.
378. E. Hyvönen, Harjula P., Viljanen K.: Representing metadata about web resources. In: Semantic Web Kick-Off in Finland - Vision, Technologies, Research, and Applications, HIIT Publications, 2002-001, Helsinki Institute for Information Technology (HIIT), Helsinki, Finland, 2002.
379. Raatikka V., Salminen K., E. Hyvönen: XML, RDF(S), and Topic Map databases. In: Semantic Web Kick-Off in Finland - Vision, Technologies, Research, and Applications, HIIT Publications, 2002-001, Helsinki Institute for Information Technology (HIIT), Helsinki, Finland, 2002.
380. J. Haajanen, E. Hyvönen, P. Takala: Generic eBusiness standards for web services. In: Semantic Web Kick-Off in Finland - Vision, Technologies, Research, and Applications, HIIT Publications, 2002-001, Helsinki Institute for Information Technology (HIIT), Helsinki, Finland, 2002.
381. E. Hyvönen, S. Kettula, V. Raatikka, K. Viljanen: Cultural Semantic Interoperability on the Web. Case Finnish Museums Online. Proc. of the 1st International Semantic Web Conference, late-breaking posters, 2002.
382. E. Hyvönen, S. Kettula, V. Raatikka, S. Saarela, K. Viljanen: Semantic Interoperability on the Web: Case Finnish Museums Online. In: Towards the semantic web and web services, Proceedings of XML Finland 2002 Conference. pp. 41-53.
383. E. Hyvönen, A. Styrman, S. Saarela: Ontology-Based Image Retrieval. In: Towards the semantic web and web services, Proceedings of XML Finland 2002 Conference. pp. 15-27.
384. E. Hyvönen, K. Viljanen, A. Hättinen: Yellow Pages on the Semantic Web. In: Towards the semantic web and web services, Proceedings of XML Finland 2002 Conference. pp. 3-14.
385. V. Raatikka, E. Hyvönen: Ontology-Based Semantic Metadata Validation. In: Towards the semantic web and web services, Proceedings of XML Finland 2002 Conference. pp. 28-40.

**Before 2000**

386. E. Hyvönen, S. De Pascale: A New Basis for Spreadsheet Computing, Proceedings of AAAI/IAAI-99, AAAI Press, Menlo Park, Calif., USA, 1999, pp. 799-806.

387. E. Hyvönen, J. Engels: Constraint Satisfaction and Traffic Flow Analysis. *Proceedings of EUFIT'97, ELITE Foundation, Aachen, Germany, 1997*, pp. 2015-2020.
388. E. Hyvönen: Evaluation of Cascaded Interval Function Constraints. *Proceedings of Workshop on Constraint-Based Reasoning, Florida AI Research Symposium, Melbourne Beach, Florida, 1995*.
389. E. Hyvönen, S. De Pascale: A Function Evaluator for Imprecise Numerical Inference. *Proceedings of Scandinavian AI Conference 1995*, IOS Press, Amsterdam, 1995.
390. E. Hyvönen, S. De Pascale: Interval Constraint Generalization of MS Excel. *Proceedings of Workshop on Constraint-Based Reasoning, Florida AI Research Symposium, Melbourne Beach, Florida, 1995*.
391. E. Hyvönen, S. De Pascale, Lehtola, A.: Interval Constraint Satisfaction Tool INC++. *Proceedings of the 5th International Conference on Tools with Artificial Intelligence*, IEEE Press, New York, 1993.
392. E. Hyvönen: Solution Abstraction in Logical Problem Solving. *AAAI-92 Workshop on Approximation and Abstraction of Computational Theories*. San Jose, California, 1992. Menlo Park, California, 1992. American Association for Artificial Intelligence, pp. 105-112.
393. E. Hyvönen: Interval Constraint Spreadsheets for Financial Planning. *Proceedings of the 1st International Conference on Artificial Intelligence Applications on Wall Street*. IEEE Press, New York, 1991.
394. E. Hyvönen: Global Consistency in Interval Constraint Satisfaction. *Proceedings of SCAI-91* (IOS Press, Amsterdam, 1991) pp. 241-251.
395. E. Hyvönen: 1991. Application Conditions for Interval Constraint Propagation. *Proceedings of the 11th International Conference on Expert Systems and Their Applications* (EC-1, Avignon, France, 1991) pp. 269-282.
396. E. Hyvönen: Constraint Reasoning Based on Interval Arithmetic. *Proceedings of IJCAI-89*, Detroit, Morgan Kaufmann, CA, USA, 1989, pp. 1193-1198.
397. E. Hyvönen: Tolerance Constraint Propagation. *Proceedings of IJCAI-89 Workshop on Constraint Reasoning*, Detroit. University of California, Los Angeles, 1989, pp. 155-156.
398. S. Linnainmaa, E. Hyvönen: Robust Consistency Maintenance Through Tolerance Propagation. *Proceedings of SCAI-89* (IOS Press, Amsterdam, 1989) pp. 27-36.
399. E. Hyvönen: A Hierarchic Relational Grammar Formalism for Natural Language Parsing. In E. Hyvönen, J. Seppänen and Syrjänen, M. (eds): *STeP-84 Symposium Papers*. Publications of Finnish Society of Information Processing Science, No 4, Espoo, 1984, pp. 260-275.
400. E. Hyvönen: Semantic Parsing as Graph Language Transformation - A Multidimensional Approach to Natural Language Parsing. *Proceedings of COLING-84*, Stanford University, Calif., USA, 1984.
401. R. Heinonen, E. Hyvönen: Interfacing and Transforming Knowledge Bases in a Graph Grammar Based Documentation System. *Proceedings of the Int. Workshop*



on Graphtheoretic Concepts in Computer Science WG83, Universitätsverlag Rudolf Trauner, Linz, Germany. Also: Report B24, Helsinki University of Technology, Digital Systems Laboratory, 1983.

402. R. Heinonen, E. Hyvönen: A Structural Text Editor Based on Graph Grammars. Proceedings of the 7th Conference on Graph Theoretic Concepts in Computer Science (WG81), June 15-17, 1981, Linz, Austria, 1982. (Name of the latter author is mistakenly missing in the proceedings.)
403. E. Hyvönen: Graph Grammar Approach to Natural Language Parsing and Understanding. *Proceedings of the 8th IJCAI*, Karlsruhe, Morgan-Kaufmann, CA, USA, 1983.

## B. Scientific Papers without Peer Review

### Conferences

404. Eero Hyvönen, Mikko Tolonen, Arto Mustajoki and Hanna Snellman: Heldig - Helsinki Centre for Digital Humanities. Digital Humanities Centres: Experiences and Perspectives. Warsaw, December 8-9, 2016, abstracts, Warsaw, Poland, Dec, 2016.
405. Nina Laurenne, Jouni Tuominen, Katharina Schleidt and Eero Hyvönen: Observing observations - an ontology-based approach for improving the reliability of biodiversity data. TDWG 2011 Annual Conference of the Taxonomic Databases Working Group, New Orleans, Louisiana, USA, October, 2011. Poster abstract.
406. Nina Laurenne, Jouni Tuominen and Eero Hyvönen: Radiation of beetles into cyberspace - two case studies of modelling taxonomic information. TDWG 2011 Annual Conference of the Taxonomic Databases Working Group, New Orleans, Louisiana, USA, October, 2011. Poster abstract.
407. Nina Laurenne, Jouni Tuominen, Arto Mertaniemi, Hannu Saarenmaa and Eero Hyvönen: LSID versus HTTP URI: Two approaches and e-infrastructures for managing information about taxon names. EIM 2011 Conference, Santa Barbara, California, USA, September, 2011. Poster abstract.

### Book Chapters

408. E. Hyvönen: Älykäs verkko tietämyksenhallinnan rajoja siirtämässä (Intelligent Semantic Web). In: K. Raivio, J. Rydman, A. Sinnemäki (eds): *Rajalla - tiede rajojaan etsimässä*, Gaudeamus, Helsinki, 2007.
409. E. Hyvönen, *Inhimillistyvä tietokone (Human computer)*. In: *Inhimillinen tietokone -- konemainen ihminen*. Helsinki University Press, 2001.
410. E. Hyvönen: Tekoelämän arvoitus (The question of artificial life). In: E. Hyvönen (ed.) *Inhimillinen tietokone -- konemainen ihminen*. Helsinki University Press, 2001.
411. E. Hyvönen: Tekoäly ja tietämystekniikka (Artificial intelligence and knowledge engineering). In: *Tekoälyn ensyklopedia (Encyclopedia of Artificial Intelligence)*. Gaudeamus, Helsinki, 1993.

412. E. Hyvönen: Tietämyksen rakenteen esittäminen (Representation of structured knowledge.) In: *Tekoälyn ensyklopedia* (Encyclopedia of Artificial Intelligence). Gaudeamus, Helsinki, 1993.
413. E. Hyvönen: Epätäsmällisyys tekoälyssä (Uncertainty in artificial intelligence). In: *Tekoälyn ensyklopedia* (Encyclopedia of Artificial Intelligence). Gaudeamus, Helsinki, 1993.

### **Magazines & Journals & Blogs**

414. Eero Hyvönen: Sampo-järjestelmien verkosto avaa linkitettyä kulttuuridataa tutkijoille ja kansalaisille semanttisessa webissä. *Tieteessä tapahtuu*, no. 2, 2024.
415. Eero Hyvönen, Eljas Oksanen, Heikki Rantala and Jouni Tuominen: Kansalaistiedettä Helsingin yliopistossa - Löytösampo kokoaa kansalaisten arkeologiset löydöt semanttisessa webissä. 2024. Blogi-kirjoitus.
416. Eero Hyvönen, Patrik Boman, Heikki Rantala, Annastiina Ahola and Petri Leskinen: Promootiosampo - Helsingin yliopiston filosofisen tiedekunnan 100 promootiota 1643-2023 semanttisessa webissä. Aalto-yliopisto ja Helsingin yliopisto, Semanttisen laskennan tutkimusryhmä (SeCo), October, 2023. submitted.
417. Eero Hyvönen: Parlamenttisampo avaa eduskunnan miljoona puhetta ja kansanedustajien verkostot kaikkien tutkittaviksi. *Tieteessä tapahtuu*, vol. 41, no. 1, Tieteellisten seurain valtuuskunta (TSV), 2023.
418. Frida Ehrnsten, Eljas Oksanen, Heikki Rantala and Eero Hyvönen: DigiNUMA ja Rahasampo – uusi digitaalinen palvelu rahalöydöistä kiinnostuneille. *Numismaattinen aikakauslehti*, 2023. In press.
419. Eero Hyvönen, Petri Leskinen, Minna Tamper, Heikki Rantala, Esko Ikkala, Jouni Tuominen and Kirsi Keravuori: Biografiasampo yhdistää ja rikastaa suomalaiset elämäkerrat linkitettyinä datana semanttisessa webissä (Biographysampo links and enriches Finnish biographies as linked data on the Semantic Web. May, 2021. Submitted.
420. Eero Hyvönen, Laura Sinikallio, Petri Leskinen, Senka Drobac, Jouni Tuominen, Kimmo Elo, Matti La Mela, Mikko Koho, Esko Ikkala, Minna Tamper, Rafael Leal, Joonas Kesäniemi: Semanttinen parlamentti: eduskunnan aineistojen linkitetyn avoimen datan palvelu ja sen käyttömahdollisuudet. April, 2021. Submitted.
421. Eero Hyvönen, Petri Leskinen, Heikki Rantala, Esko Ikkala and Jouni Tuominen: Akatemiasampo-portaali ja -datapalvelu henkilöiden ja henkilöryhmien historialliseen tutkimukseen (AcademySampo Portal and Data Service for Biographical and Prosopographical Research). *Informaatiotutkimus*, February, 2021. Accepted.
422. Eero Hyvönen: Sammon taontaa semanttisessa webissä (Forging Sampos on the Semantic Web). *Tekniikan Waiheita*, 2021. Accepted.
423. Eero Hyvönen: Digitaalisten ihmistieteiden keskus HELDIG profiloii Helsingin yliopiston humanistisia aloja (Helsinki Centre for Digital Humanities HELDIG Profiled Areas in Humanities at the University of Helsinki). *Tieteessä tapahtuu*, no. 1, Tieteellisten seurain valtuuskunta, February, 2021.

424. Eero Hyvönen: FinnONTO-hanke loi ontologisen perustan kansalliselle webin tietoinfrastruktuurille (FinnONTO Project Created a Foundation for the Finnish Data Infrastructure on the Web). *Tieteessä tapahtuu*, no. 3, 2014.
425. Eero Hyvönen, Arttu Oksanen, Jouni Tuominen, Eetu Mäkelä and Minna Tamper: Semanttinen Finlex. Laki ja oikeus avoimena linkitettyinä datana. (Semantic Finlex. Law and Justice as Linked Open Data.). *Oikeus-lehti*, vol. 46, no. 1, March, 2017.
426. Eero Hyvönen: Digitaalisten ihmistieteiden keskus HELDIG käynnisti toimintansa (Digital Humanities Centre HELDIG Started Operations). *Tieteessä tapahtuu*, vol. 35, no. 2, March, 2017
427. Jouni Tuominen, Kim Viljanen and Eero Hyvönen: Ontologiapalvelut semanttisessa webissä (Ontology services on the Semantic Web). (in Finnish), *Tietojenkäsittelytiede*, no. 1, pp. 17-36, Tietojenkäsittelytieteen Seura ry, 4, 2012.
428. Eero Hyvönen: Linked Open Data - innovaatio jaetulle avoimelle tiedolle. *Tietoasiantuntija*, no. 2-3, May, 2010.
429. E. Hyvönen: Semanttinen web kansalliseksi voimavaraksi (Semantic Web as a National Resource). *Tietoasiantuntija*, No. 2, 2008.
430. Eero Hyvönen, Katri Seppälä, Kim Viljanen and Matias Frosterus: Yleinen suomalainen ontologia YSO - kohti suomalaista semanttista webiä (General Finnish Ontology YSO - Towards the Finnish Semantic Web). *Tietolinja*, May, 2007.
431. Eero Hyvönen: HealthFinland – Finnish Health Information on the Semantic Web. The 11th European Conference of Medical and Health Libraries. Abstracts. Helsinki, Finland, 2008.
432. E. Hyvönen: Towards National Finnish Semantic Web Ontologies. *Helsinki University Library Bulletin*, ISSN 1456-1034, Helsinki, Finland, 2004.
433. E. Hyvönen: Semantic Web – visio, teknologia, sovellukset (Semantic Web – vision, technology, and applications). *Systeemyö*, No 1, 2002, pp. 30-35.
434. E. Hyvönen: Semantic Web – kohti seuraavan polven Internet palveluja (Semantic Web – towards the next generation of Internet services). *Tietoyhteys*, No 3, 2002, pp. 14-55.
435. E. Hyvönen, S. De Pascale: Next Generation Spreadsheet Computing: Interval Solver for Microsoft Excel. *PC AI*, 1997.
436. Hyvönen, E: Epätäsmällisyys tietämysjärjestelmissä — muodot ja käsitteistö (Uncertainty in knowledge-based systems — forms and concepts. *Tiedepolitiikka*, No. 3, 1988.

### Proceedings

437. E. Hyvönen, Äly tutkimuskohteena ja yhteiskunnallisena kysymyksenä (Intelligence as a research topic and social question). In: Haaparanta L. et al., *Älyn ulottuvuuden ja oppihistoria*, Publications of Finnish AI Society, 1995.
438. E. Hyvönen: Search for Extraterrestrial and Intrahuman Intelligence. In: Linnaluoto S., Seppänen J.: *SETI — Search for Extraterrestrial Intelligence*, An

- International Interdisciplinary Seminar. Publications of the Finnish AI Society, No 9, 1993.
439. E. Hyvönen, Keinoelämä — Elämän formalismeja ja formalismien elämää (Artificial Life — Formalisms of life and living formalisms). In: *Artificial Life*, Publications of Finnish AI Society, 1995.
  440. E. Hyvönen, S. De Pascale: Complement and Discontinuous Interval Arithmetic, International Conference on Interval and Computer-Algebraic Methods in Science and Engineering (INTERVAL '94), Abstracts, St. Petersburg, Russia, 1994. pp.119-121.
  441. E. Hyvönen, S. De Pascale: Applying Computer Algebra to Interval Function Evaluation, International Conference on Interval and Computer-Algebraic Methods in Science and Engineering (INTERVAL '94), Abstracts, St. Petersburg, Russia, 1994. pp.116-118.
  442. E. Hyvönen, S. De Pascale: C++ Libraries for Interval Computations, *Proceedings of STeP-94*, Finnish AI Society, Espoo, 1994, pp. 202-206.
  443. Chan S., E. Hyvönen: Application of constraint logic solving to generation rejection in electrical power utility. *Proceedings of STeP 2000*, Vol 2, AI of Today. Publications of the Finnish AI Society, No 16, Espoo, Finland, 2000, pp.167-173.
  444. E. Hyvönen, S. De Pascale: Interval Constraint Excel, *Proceedings of STeP-94*, Finnish AI Society, Espoo, 1994, pp. 207-215.
  445. E. Hyvönen: Interval Spreadsheets Based on Constraint Satisfaction. In: *STeP-92 New Directions of AI*, Vol. 1, Finnish AI Society, Helsinki, 1992, pp. 116-124.
  446. E. Hyvönen: Risk Management of Software Projects Based on Causal Knowledge Models. *Proceedings of the European Software Cost Modelling Meeting*, München, 1992, 16 pp.
  447. E. Hyvönen: Inexact Constraint Reasoning in Predicate Logic. Technical Paper TR-90-10, Electrotechnical Laboratory, Cognitive Science Section, Japan, 1990. Also in: *Proceedings of STeP-90*, Finnish AI Society, Oulu, Finland.
  448. E. Hyvönen: Forms of Introspection in Machine Intelligence. Paper presented at the 5th Finnish-Soviet Logic Symposium on Logical Theory of Propositional Attitudes and their Applications, Tampere, 26.-28.5.1987. Helsinki University of Technology, Systems Analysis Laboratory, Research Report A21, 1987.
  449. E. Hyvönen, J. Seppänen: Katsaus Lisp-kielen historiaan ja kehitykseen (Overview of the history and development of Lisp). In: E. Hyvönen, J. Seppänen and Syrjänen, M. (eds): *STeP-84 Symposium Papers*. Publications of Finnish Society of Information Processing Science, No 4, Espoo, 1984. Also: Katsaus No 6, Helsinki University of Technology, Computing Centre.
  450. E. Hyvönen: Suomenkielen automaattinen tulkinta tietokoneella (Natural Finnish understanding by computer). Finnish Society of Automation, Suomen säätötekn. seuran julkaisu 10, Vol. 3, 1984, pp. 493-512.
  451. E. Hyvönen: Verkkokielen menetelmä suomenkielen semanttisen jäsentämisen ja ymmärtämisen kuvaamiseksi (A graph grammar based method for semantical parsing and understanding Finnish). Publications of the Linguistic Association in

Finland, Lauseenjäsennyksen perusteet, seminaari Seilissä, Suomen kielitieteellisen yhdistyksen julkaisuja, Turku 1982.

452. E. Hyvönen: Tietojenkäsittelyteorian käsite- rakenteet ja luonnollisen kielen ymmärtämisen mallittaminen (Concepts of computer science in modelling natural language understanding). Association Internationale de Linguistique Appliquée, Psykolingvistisiä kirjoituksia 3, AFinLan julkaisuja No 34, Jyväskylä, 1982. Also: Raportti A14, Helsinki University of Technology, Digital Systems Laboratory, 1982.

### Other

453. Eero Hyvönen: Museoalan ontologiat Suomessa. Kansallisen FinnONTO-hankkeen tulosten hyödyntäminen (Cultural Heritage Ontologies in Finland. Utilizing the results of the FinnONTO project.). (in Finnish), Aalto University, Department of Media Technology, 4, 2012.
454. E. Hyvönen: MuseoSuomi – Suomen museot semanttisessa webissä. Article, pp. <http://www.cs.helsinki.fi/u/eahyvone/research/museosuomi/museosuomiesittely.pdf>, 18 pp.
455. E. Hyvönen: Suomalaiset semanttisen webin ontologiat. <http://www.cs.helsinki.fi/group/seco/ontologies/SuomenSemWebEsittely2004-01-27.pdf>, 14 pp.

## C. Monographs

### C.1 Text Books

456. Eero Hyvönen: Semanttinen web. Linkitetyn avoimen datan käsikirja (Semantic Web. Handbook of Linked Open Data). pp. 271, Gaudeamus, Helsinki, Finland, 2018.
457. Eero Hyvönen. Publishing and Using Linked Data of Cultural Heritage on the Semantic Web. Synthesis Lectures on the Semantic Web: Theory and Technology. Morgan & Claypool, Palo Alto, 2012.
458. E. Hyvönen (ed.) Ohjelmistoliiketoiminta (Software Business). WSOY, Helsinki, 2003.
459. E. Hyvönen (ed.) *Inhimillinen tietokone -- konemainen ihminen* (Human machine or machine-like human). Helsinki University Press, Helsinki. 2001.
460. E. Hyvönen, I Karanta, M. Syrjänen (eds.): *Tekoälyn ensyklopedia* (Encyclopedia of Artificial Intelligence). Gaudeamus, Helsinki, 1993, 356 pp.
461. E. Hyvönen, J. Seppänen: *Lisp-maailma 2: Ohjelmointimenetelmät ja -järjestelmät*. (Lisp World 2: Programming Techniques and Environments). Kirjayhtymä, 1987, Helsinki, 293 pp.
462. E. Hyvönen, J. Seppänen: *Lisp-maailma: Johdatus kieleen ja ohjelmointiin*. (Lisp World: Introduction to Language and Programming). Kirjayhtymä, Helsinki, 1986, 360 pp.

463. E. Hyvönen: *Asiantuntijajärjestelmien tietämystekniikka* (Expert systems and knowledge engineering). Knowledge Engineering Ky, Helsinki, 1985, 155 pp.

### C.2 Translated Versions

464. E. Hyvönen, J. Seppänen: *Mir Lispa 1*. MIR Publishers, Moscow, 1990, 383+64 pp. Translated from “Lisp World I”, cf. above.
465. E. Hyvönen, J. Seppänen: *Mir Lispa 2*. MIR Publishers, Moscow, 1990, 296+23 pp. Translated from “Lisp World 2”, cf. above.

### C.3 Edited Proceedings Volumes

466. Eero Hyvönen, Mikko Koho, Angel Daza and Gregor Pobežin (eds.): Proceedings of the BD2022 Biographical Data in a Digital World 2022 Conference, co-located with DH 2022, Tokyo, 2022. Institute of Cultural History, ZRC SAZUs, Ljubljana, January, 2024.
467. Matti La Mela, Fredrik Norén and Eero Hyvönen (eds.): Proceedings of the Digital Parliamentary Data in Action (DiPaDA 2022) Workshop. CEUR Workshop Proceedings, vol. 3133, May, 2022.
468. Patrick Lambrix, Eero Hyvönen, Eva Blomqvist, Valentina Presutti, Guilin Qi, Uli Sattler, Ying Ding, Chiara Ghidini (Eds.) Knowledge Engineering and Knowledge Management. EKAW 2014 Satellite Events, VISUAL, EKM1, and ARCOE-Logic. Lecture Notes in Artificial Intelligence, Springer-Verlag, 2015.
469. Krzysztof Janowicz, Stefan Schlobach, Patrick Lambrix, and Eero Hyvönen (Eds.): Knowledge Engineering and Knowledge Management. 19th International Conference, EKAW 2014, Proceedings. Lecture Notes in Artificial Intelligence, Springer-Verlag, 2014.
470. Dimitrios A. Koutsomitropoulos, Eero Hyvönen, and Theodore S. Papatheodorou (eds.): Semantic Web and Reasoning for Cultural Heritage and Digital Libraries. Semantic Web – Interoperability, Usability, Applicability, vol. 3, no. 1, IOS Press, 2012. Special Issue.
471. Lora Aroyo, Grigoris Antoniu, Eero Hyvönen, Annette ten Teije, Heiner Stuckenschmidt, Liliana Cabral, Tania Tudorache (ed.): The Semantic Web: Research and Applications. 7th Extended Semantic Web Conference, ESWC 2010. Proceedings, Part I. Springer-Verlag, May/June, 2010.
472. Lora Aroyo, Grigoris Antoniu, Eero Hyvönen, Annette ten Teije, Heiner Stuckenschmidt, Liliana Cabral, Tania Tudorache (ed.): The Semantic Web: Research and Applications. 7th Extended Semantic Web Conference, ESWC 2010. Proceedings, Part II. Springer-Verlag, May/June, 2010.
473. Lora Aroyo, Paolo Traverso, Fabio Ciravegna, Philipp Cimiano, Tom Heath, Eero Hyvönen, Riichiro Mizoguchi, Eyal Oren, Marta Sabou and Elena Simperl (eds.): The Semantic Web: Research and Applications, 6th European Semantic Web Conference, ESWC 2009, Heraklion, Crete, Greece, May 31-June 4, 2009, Proceedings. ESWC, Lecture Notes in Computer Science, vol. 5554, Springer, June, 2009.

474. E. Hyvönen and M. Klemettinen (eds.) *Towards the Semantic Web and Web Services*. Proceedings of the XML Finland 2002 Conference. HIIT Publications 2002-03, Helsinki, 2002.
475. E. Hyvönen (ed.) *Semantic Web Kick-Off in Finland - Vision, Technologies, Research, and Applications*, HIIT Publications, 2002-001, Helsinki Institute for Information Technology (HIIT), Helsinki, Finland, 2002.
476. E. Hyvönen, Seppänen J. (eds.), *Keinoelämä — Artificial Life*, Publications of Finnish AI Society, Espoo, Finland, 1995, 274 pp.
477. L. Haaparanta, E. Hyvönen, J. Seppänen, J. Silvonen (eds.) *Älyn ulottuvuudet ja oppihistoria* (Dimensions and intellectual history of intelligence), Publications of Finnish AI Society, Espoo, Finland, 1995.
478. E. Hyvönen, J. Seppänen and M. Syrjänen (eds.): *STeP-84 Symposium Papers*. Finnish Artificial Intelligence Symposium. Publications of Finnish Society of Information Processing Science, No 4, Espoo, 1984.
479. E. Hyvönen, J. Seppänen and M. Syrjänen (eds.): *STeP-84 Tutorial and Industrial Lectures*. Finnish Artificial Intelligence Symposium. Publications of Finnish Society of Information Processing Science, No 5, Espoo, 1984.
480. E. Hyvönen, J. Seppänen and M. Syrjänen (eds.): *STeP-92 Tekoälyn uudet suunnat*, Vol. 1, Esitelmät (STeP-92, New Directions of Artificial Intelligence, Vol. 1, Papers.). Suomen Tekoälyseura, Helsinki, 1992, 291 pp.
481. E. Hyvönen, J. Seppänen and M. Syrjänen (eds.): *STeP-92 Tekoälyn uudet suunnat*, Vol. 2, Symposiot (STeP-92, New Directions of Artificial Intelligence, Vol. 2, Symposia.). Suomen Tekoälyseura, Helsinki, 1992, 243 pp.
482. E. Hyvönen, J. Seppänen and M. Syrjänen (eds.): *STeP-92 Tekoälyn uudet suunnat*, Vol. 3, Työkokoukset (STeP-92, New Directions of Artificial Intelligence, Vol. 3, Workshops.). Suomen Tekoälyseura, Helsinki, 1992, 211 pp.
483. E. Hyvönen (ed.) *Semantic Web Kick-Off in Finland - Vision, Technologies, Research, and Application*. HIIT Publications, 2002-001, Helsinki Institute for Information Technology, Helsinki, Finland, 2002.
484. E. Hyvönen and M. Klemettinen (ed.) *Towards the Semantic Web and Web Services*. HIIT Publications, 2002-003, Helsinki Institute for Information Technology, Helsinki, Finland, 2002.
485. E. Hyvönen, T. Kauppinen, M. Salminen, K. Viljanen, P. Ala-Siuru (eds): *Proceedings of the 11th Finnish AI Conference*, vol 2., Web Intelligence, Finnish AI Society, Finland, 2004.
486. E. Hyvönen, T. Kauppinen, J. Kortela, M. Laukkanen, T. Raiko, T., and K. Viljanen K. (eds.) *New Developments in Artificial Intelligence and the Semantic Web*. Proceedings of the 12th Finnish Artificial Intelligence Conference STeP 2006, Helsinki University of Technology, Espoo, Finland, October 26-27, 2006.

#### C.4 Special Issues of Journals

487. Mehwish Alam, Victor de Boer, Enrico Daga, Marieke van Erp, Eero Hyvönen and Albert Meroño-Peñuela: Editorial of Special Issue on Cultural Heritage and

- Semantic Web Technology. *Semantic Web - Interoperability, Usability, Applicability*, vol. 14, no. 2, pp. 155-158, IOS Press, 2023.
488. Marcia Zeng, Chris Sula, Karen Gracy, Eero Hyvönen and Vania Mara Alves Lima: JASIST Special Issue on Digital Humanities. *Journal of the Association for Information Science and Technology (JASIST)*, September, 2021.
489. Dimitrios A. Koutsomitropoulos, Eero Hyvönen, and Theodore S. Papatheodorou (eds.): *Semantic Web and Reasoning for Cultural Heritage and Digital Libraries. Semantic Web -- Interoperability, Usability, Applicability*, 2011.
490. Lynda Hardman, Jacco van Ossenbruggen, Lora Aroy and Eero Hyvönen (eds.): *AI and Cultural Heritage. IEEE Intelligent Systems*, vol. 24, no. 2, IEEE Computer Society, March/April, 2009.

## **D. Publications for Professional Audience**

### **D.1 System Descriptions, Manuals**

491. E. Hyvönen, S. De Pascale: *Interval Solver for MS Excel, User's Guide*. Delisoft Ltd, Helsinki, Finland, 1998, 1999, 2000.
492. E. Hyvönen, S. De Pascale: *Range Solver for MS Excel, User's Guide, Version 1.0*. VTT Information Technology, Espoo, Finland, 1996.
493. E. Hyvönen, S. De Pascale: *ICE InC++: A library for interval constraint equations*. Research Report, VTT, Technical Research Centre of Finland, Laboratory for Information Processing, Helsinki, Finland, 1994.
494. E. Hyvönen, S. De Pascale: *LIA InC++: A local interval arithmetic library*, Research Report, VTT, Technical Research Centre of Finland, Information Technology, Espoo, Finland, 1994.
495. E. Hyvönen, S. De Pascale: *GIA InC++: A global interval arithmetic library*, Research Report, VTT, Technical Research Centre of Finland, Information Technology, Helsinki, Finland, 1994.
496. E. Hyvönen, S. De Pascale: *CIF InC++: A library for cascaded interval function evaluation*, Research Report, VTT, Technical Research Centre of Finland, Information Technology, Helsinki, Finland, 1994.
497. S. De Pascale, E. Hyvönen: *An Extended Interval Arithmetic Library for MS Excel*. VTT, Technical Research Centre of Finland, Information Technology, Espoo, 1994.

### **D.2 Publications in Institutional Series and Organizations**

498. Pere Brunet, Livio de Luca, Eero Hyvönen, Adeline Joffres, Peter Plassmayer, Martijn Pronk, Roperto Scopigno and Gabor Sonkoly: *Report on a European Collaborative Cloud for Cultural Heritage. Ex-ante Impact Assessment*. European Commission, Directorate-general for Research and Innovation, March, 2022. 108 p.
499. Eero Hyvönen: *Tekoäly ja semanttinen web tarjoavat huikeat mahdollisuudet suurten aineistojen hallintaan. Kansallisarkiston strategia 2025, näkökulmia*



- tulevaan (Jussi Nuorteva, Päivi Happonen (ed.)), pp. 20-21, Kansallisarkisto, Helsinki, May, 2020.
500. Katri Seppälä and Eero Hyvönen: Asiasanaston muuttaminen ontologiaksi. Yleinen suomalainen ontologia esimerkkinä FinnONTO-hankkeen mallista (Changing a Keyword Thesaurus into an Ontology. General Finnish Ontology as an Example of the FinnONTO Model). National Library, Plans, Reports, Guides, March, 2014.
  501. E. Hyvönen: Interval input and output. In S. Dietrich, A. Facius, N. Bierlox (eds.) International Symposium on Scientific Computing, Computer Arithmetic, and Validated Numerics (SCAN 2000), Abstracts. Institut fuer Angevandte Mathematic, Universität Karlsruhe, Germany, 2000, pp. 148-149.
  502. E. Hyvönen: Tolerance Constraint Satisfaction. Technical Paper TR-90-8, Electrotechnical Laboratory, Cognitive Science Section, Tsukuba, Japan, 1990.
  503. E. Hyvönen: Reasoning with Incomplete Logical Knowledge - The Tolerance Constraint Logic Approach. Technical Paper TR-90-9, Electrotechnical Laboratory, Cognitive Science Section, Tsukuba, Japan, 1990.
  504. I. Priha, M. Hämäläinen, M. Hiirsalmi, and E. Hyvönen: Tools for Building Knowledge-Based Systems. Research Note 916, Technical Research Centre of Finland, 1988, 147 pp.
  505. E. Hyvönen, J. Seppänen: Lisp-kieli ja tietopohjainen ohjelmointi (Lisp Language and Knowledge-Based Programming). In: Rakennetun ympäristön tutkimuksia T2, Tietopohjaisen suunnittelun symposium TIPS-84, Arkkitehtiosasto, Teknillinen korkeakoulu, Espoo, 1986, pp.59-68.
  506. E. Hyvönen: Asiantuntijajärjestelmien sovelluskohteen valintakriteerit (Selection criteria for expert system application domain). Report, Finnish Defence Forces, Head Quarters, Computing Centre (Puolustusvoimien ATK-laitos), Helsinki, 1986 (confidential).
  507. E. Hyvönen: Tekoälyn sotilaalliset sovellukset ja merkitys (Military applications of artificial intelligence and their importance). Report, Finnish Defence Forces, Head Quarters, Computing Centre (Puolustusvoimien ATK-laitos), Helsinki, 1986 (confidential).
  508. E. Hyvönen: Raportti tekoälyn soveltamisesta tiedustelutoiminnassa (Report on applying artificial intelligence in intelligence operations). Report, Finnish Defence Forces, Head Quarters, Computing Centre (Puolustusvoimien ATK-laitos), Helsinki, 1986 (confidential).
  509. E. Hyvönen, J. Seppänen (ed.): Artificial Intelligence Related Research and Education in Finland 1983. Report A19, Helsinki University of Technology, Digital Systems Laboratory, 1983.
  510. E. Hyvönen, J. Seppänen: Tekoälytutkimuksen uusi tuleminen: Katsaus alan järjestö-, konferenssi- ja julkaisutoimintaan maailmalla (Comeback of artificial intelligence research: a survey of scientific societies, conferences, and publications of the field). Tietotekniikan uudet eväät, Suomen ATK-kustannus Oy, Helsinki, 1983. Also: Report A17, Helsinki University of Technology, Digital Systems Laboratory, 1983.

511. E. Hyvönen: Suomenkielen automaattinen tulkinta verkkokielten avulla — ensimmäisiä tuloksia (Natural Finnish understanding by using graph grammars — First results). Raportti A16, Helsinki University of Technology, Digital Systems Laboratory, 1982.
512. R. Heinonen, E. Hyvönen: A Structural Programmable Text Editor Based on Graph Grammars. Report B18, Helsinki University of Technology, Digital Systems Laboratory, 1982.
513. E. Hyvönen (ed.): Digital Systems Laboratory. Annual Report of the Academic Year 1980-1981. Report A13, Helsinki University of Technology, Digital Systems Laboratory, 1982.
514. E. Hyvönen (ed.): Digital Systems Laboratory. Annual Report of the Academic Year 1981-1982. Report A15, Helsinki University of Technology, Digital Systems Laboratory, 1982.
515. R. Heinonen, E. Hyvönen, J. Karvinen: A Graph Manipulation System. Report B16, Helsinki University of Technology, Digital Systems Laboratory, 1981.
516. R. Heinonen, E. Hyvönen, J. Karvinen: An Interactive User Interface for a Graph Manipulation System. Report B17, Helsinki University of Technology, Digital Systems Laboratory, 1981.
517. E. Hyvönen, J. Karvinen: An Implementation of the Lispkit Lisp System. Report C3, Helsinki University of Technology, Digital Systems Laboratory, 1981.

### D.3 Seminar Papers

518. E. Hyvönen, Semantic Web -- koti uutta merkitysten Internetiä (Semantic Web -- towards the new Internet of meanings). Paper presented at the Semantic Web Kick-Off Seminar, University of Helsinki and Helsinki Institute for Information Technology, Helsinki, October 2, 2001.
519. E. Hyvönen ja S. De Pascale: Intervallit taulukkolaskentaan (Intervals for spreadsheets). Paper presented at the 25<sup>th</sup> anniversary of Helsinki University Technology, Laboratory for Information Processing Science, to be published in 1996.
520. E. Hyvönen: Epätäsmällisyyden muodot ja käsitteistö tietämysjärjestelmissä (Forms and concepts of uncertainty in knowledge-based systems). In: J. Ruusunen and R. Hämmäläinen (eds): Päätöksenteosta tekoälyyn. Helsinki University of Technology, Systems Analysis Laboratory, 1987.
521. E. Hyvönen: Asiantuntijajärjestelmät (Expert systems). INSKOn koulutuspäivät Asiantuntijajärjestelmät teollisuudessa, 6-7.3.1985, Helsinki, 1985. Also: Report A21, Helsinki University of Technology, Digital Systems Laboratory, 1985.
522. E. Hyvönen: Lisp-järjestelmät (Lisp systems). AI Systems Oy:n seminaari Asiantuntijajärjestelmien kehittämisvälineet, 8-9.5.1985, Helsinki, 1985.
523. E. Hyvönen, J. Seppänen: Lisp-koneet ja tekoälyn ohjelmointiympäristöt (Lisp machines and programming environments for artificial intelligence). Tietotekniikkapäivät 1984, OtaData ry, Espoo, 1984. Also in: Valokynä, No 2, 1984, pp. 12-15.

524. E. Hyvönen: Tekoälytutkimuksen kaupalliset sovellutukset ja markkinat (Commercial applications and markets of artificial intelligence). Tietotekniikan uudet eväät, Suomen ATK-kustannus Oy, Helsinki, 1983. Also: Report A18, Helsinki University of Technology, Digital Systems Laboratory, 1983; Also: INSKO Ry, Insinööripäivät, 1985.
525. E. Hyvönen: Asiantuntijajärjestelmien rakenne ja toiminta (Structure and function of expert systems). Asiantuntijajärjestelmien kehitystyökalut, course 264-85, INSKO, Helsinki, 1985, pp. 1-23.
526. E. Hyvönen: Asiantuntijajärjestelmien kehitysohjelmistot mikrotietokoneissa (Tools for building expert systems in micro computers). Tekoälyohjelmistot mikrotietokoneissa, Seminaarimateriaali, Artificial Intelligence Systems Oy, Vantaa, 1985.

#### **D.4 Articles in Professional Magazines**

527. Frida Ehrnsten, Eljas Oksanen, Heikki Rantala and Eero Hyvönen: DigiNUMA ja Rahasampo – uusi digitaalinen palvelu rahalöydöistä kiinnostuneille. Numismaattinen aikakauslehti, 2023.
528. Eero Hyvönen: Parlamenttisampo avaa eduskunnan miljoona puhetta ja kansanedustajien verkostot kaikkien tutkittaviksi. Tieteessä tapahtuu, vol. 41, no. 1, Tieteellisten seurain valtuuskunta (TSV), 2023.
529. Eero Hyvönen: Digitaalisten ihmistieteiden keskus HELDIG profiloii Helsingin yliopiston humanistisia aloja (Helsinki Centre for Digital Humanities HELDIG Profiled Areas in Humanities at the University of Helsinki). Tieteessä tapahtuu, Tieteellisten seurain valtuuskunta, 2021. Accepted.
530. Eero Hyvönen: The Helsinki Centre for Digital Humanities (HELDIG): Developing the Digital World Together. EuropeNow Journal, Council for European Studies, Columbia University, September, 2019.
531. Eero Hyvönen: National Linked Open Data Infrastructure for Digital Humanities. EuropeNow Journal, Council for European Studies, Columbia University, September, 2019.
532. Eero Hyvönen: Linked Data in Use: Sampo Portals on the Semantic Web. EuropeNow Journal, Council for European Studies, Columbia University, September, 2019.
533. Eero Hyvönen: Historiallinen paikkatieto semanttisessa webissä: Biografiasampo. (Historical geodata on the Semantic Web: BiographySampo). Positio, no. 1, Maanmittauslaitos, February, 2019.
534. Eero Hyvönen: Sotasampo - talvi- ja jatkosota semanttisessa webissä (WarSampo - Finnish WW2 on the Semantic Web). Tietoasiantuntija, April, 2018.
535. Minna Tamper, Arttu Oksanen, Eero Hyvönen: Schema.org - hakukonejättien semanttinen web (Schema.org - The Semantic Web of Search Engine Giants). Tietoasiantuntija, April, 2018.
536. E. Hyvönen, Semantic Web - visio, teknologiat, sovellukset (Semantic Web - The Vision, Technologies, Applications), *Systeemyölehti*, 2002.

537. E. Hyvönen ja S. De Pascale: Intervallirajoitelaskenta – uusi perusta Excel taulukkolaskimelle. *INFORS Suomen Operaatiotutkimusseuran jäsenlehti*, No 3, 1998.
538. E. Hyvönen: Ihmisäly, tekoäly, koneäly (Human intelligence, artificial intelligence, machine intelligence). *Yliopistolehti*, 23.4.1993.
539. E. Hyvönen: Humanismi kohtaa tekoälyn - Eli tarina Pyhästä Yrjöstä ja lohikäärmeestä (Humanism meets artificial intelligence — a story about St. George and the dragon). *Arpakannus*, No 1, 1989.
540. E. Hyvönen: Voiko tietokone tuntea mansikan maun (Can a computer taste strawberries)? *Tekniikka ja talous*, 13.1.1989.
541. E. Hyvönen: Epätäsmällisyys tietämysjärjestelmissä — muodot ja käsitteistö (Uncertainty in knowledge-based systems — forms and concepts. *Tiedepolitiikka*, No. 3, 1988.
542. E. Hyvönen: Tekoäly pystyy perustelevaan (Artificial intelligence can explain its reasoning). *Sotilasaikakauslehti*, 3/1987.
543. E. Hyvönen: Tekoälyä ja tietämystekniikkaa, osa 1 (AI and knowledge engineering, part 1), *Idea*, No 3, 1986.
544. E. Hyvönen: Tekoälyä ja tietämystekniikkaa, osa 2, (AI and knowledge engineering, part 2), *Idea*, No 4, 1986.
545. E. Hyvönen: Tekoälyä ja tietämystekniikkaa, osa 3, (AI and knowledge engineering, part 3), *Idea*, No 6, 1986.
546. E. Hyvönen: Tekoälyn käyttökohteet kannattaa kartoittaa (Application Areas of Artificial Intelligence Should be Surveyed). *Tietotekniikka*, No 1, 1987.
547. E. Hyvönen ja J. Seppänen: Äly hoi, älä jätä. *Tietoviikko* 20.10.1983.
548. E. Hyvönen: Tietokone voi ymmärtää luonnollista suomenkieltä — ensimmäisiä tuloksia (A computer can understand natural Finnish — first results). *Tietotekniikka*, No 9, 1982.
549. E. Hyvönen: Miksi ohjelmien toimittaminen on niin hankalaa (Why editing programs is so difficult)? *Proessori*, No 2, 1982.
550. E. Hyvönen: Prolog. *Tietokone*, No 4, 1983.
551. E. Hyvönen: Tekoälytyökalut tulevat (AI tools are coming). *Tietoviikko* 25.3.1987.
552. E. Hyvönen: Lisp - älykäs kieli ihmisläheiseen ohjelmointiin. *Proessori*, ELCOM erikoisnumero, 1981
553. E. Hyvönen, J. Seppänen: Lisp-kurssi, osa 1: Symboleja, listoja ja funktioita. *Proessori*, No 11, 1982.
554. E. Hyvönen, J. Seppänen: Lisp-kurssi, osa 2: Symboliset lausekkeet ja niiden tulkinta. *Proessori*, No 12, 1982.
555. E. Hyvönen, J. Seppänen: Lisp-kurssi, osa 3: Lispin alkeisfunktiot - listojenkäsittelyn aksioomit. *Proessori*, No 1, 1983.
556. E. Hyvönen, J. Seppänen: Lisp-kurssi, osa 4: Laskennan ohjaus COND- ja PROG-lauseilla. *Proessori*, No 2, 1983.

557. E. Hyvönen, J. Seppänen: Lisp-kurssi, osa 5: Funktionaalinen ohjelmointi. *Prosessori*, No 3, 1983.
558. E. Hyvönen, J. Seppänen: Lisp-kurssi, osa 6: Funktionaalinen ohjelmointi (jatko-osa). *Prosessori*, No 4, 1983.
559. E. Hyvönen, J. Seppänen: Lisp-kurssi, osa 7: Symbolien Ominaisuudet ja Assosiaatiolistat. *Prosessori*, No 5, 1983.
560. E. Hyvönen, J. Seppänen: Lisp-kurssi, osa 8: Listojen sisäinen esitysmuoto muistissa. *Prosessori*, No 6-7, 1983.
561. E. Hyvönen, J. Seppänen: Lisp-kurssi, osa 10: Muita funktioita ja funktiotyyppejä. *Prosessori*, No 10, 1983.
562. E. Hyvönen, J. Seppänen: Lisp-kurssi, osa 11: Perus- ja varusfunktiot Lisp-järjestelmissä. *Prosessori*, No 10, 1983.
563. E. Hyvönen, J. Seppänen: Lisp ymmärtää puhetta. *Tietokone*, No 5, 1985.
564. E. Hyvönen, J. Seppänen: Lisp-kieli symbolien käsittelyyn. *Tietokone*, No 6-7, 1985.
565. E. Hyvönen, J. Seppänen: Lisp-ohjelmointikieli (Lisp language). Nokia NITECH, Helsinki, 1984.
566. E. Hyvönen, J. Seppänen: Lisp-maailma 1 (Lisp world 1). Knowledge Engineering Ky, Helsinki, 1985.
567. E. Hyvönen, J. Seppänen: Lisp-maailma 2 (Lisp world 1). Knowledge Engineering Ky, Helsinki, 1985.
568. E. Hyvönen, J. Seppänen, Syrjänen, M.: STeP-84 esitteli tekoälyn keskeistä tutkimusta (Essential AI research presented at STeP-84). *Tietotekniikka*, No 11, 1984, pp. 20-22.
569. E. Hyvönen, J. Seppänen, Syrjänen, M.: Tutkijat ja teollisuus pohtivat tekoälyä Otaniemessä (Researchers and industry reflect on AI in Otaniemi). *Valokynä*, No 3, 1984, pp. 31-35.
570. E. Hyvönen: Isot ATK-nimet tekevät tekoälystä teollisuuden (Big companies make AI into industry). *Insinööriutiset* 4.10.1985.
571. E. Hyvönen: Tekoälyn maailmankonferenssi IJCAI-85 Los Angelesissa - raportti teollisuusnäyttelystä, *Mikro-tietokonelehti*, No 7, 1985. Also in: Asiantuntijajärjestelmien kehitystyökalut, course 264-85, INSKO, Helsinki, 1985.
572. E. Hyvönen: Tekoälyn toinen aalto tulee (The second wave of artificial intelligence is coming). *Insinööriutiset*, September, 1988.
573. E. Hyvönen: Seuraako uhoa tuho? Japanin Viidennen polven tietokone -projekti taitekohdassa (The 5th generation computer project in a turning point: raise or fall?). *Tietoviikko* 23.3.1989.
574. E. Hyvönen: Towards grand unifying theory - Impressions of IJCAI-89. *Arpakannus*, No 3, 1989.
575. E. Hyvönen: 1990. Tekoälytutkimusta nousevan auringon alla. Tutkijavaihto Japanin MITI:n Electrotechnical Laboratoryyn (AI research under the raising sun.

- Working as a visiting researcher in MITI's Electrotechnical laboratory). *Arpakannus*, No 4, pp. 22-26.
576. E. Hyvönen: 1990. Yritysvierailuja Japanin yksityisisissä tutkimuslaitoksissa (Visiting private Japanese research centres). *Arpakannus*, No 4, pp. 27-32.
577. E. Hyvönen: 1990. Japanilaissähkökirjeenvaihtokuulumisia (Email news from Japan). *Arpakannus*, No 4, pp. 33-42.
578. E. Hyvönen: Inhimillinen tietokone, konemainen ihminen, Tekoälytutkimuksen päivät 2000. (Human machine or machine-like human, Finnish Artificial Intelligence Conference 2000.) *Tietojenkäsittelytiede*, joulukuu 2000, pp. 28-30.
579. E. Hyvönen: Tuplamaisteriksi puolella vaivalla (Obtaining a double master's degree with half the work). *Yliopisto*, No. 4, 2000.

## E. Publications for the General Public

580. Eero Hyvönen, Petri Leskinen, Minna Tamper, Heikki Rantala, Esko Ikkala, Jouni Tuominen and Kirsi Keravuori: Biografiasammon tekoäly yhdistää ja rikastaa suomalaiset elämäkerrat semanttisessa webissä. Aalto-yliopisto, Semanttisen laskennan tutkimusryhmä (SeCo), 2018.
581. E. Hyvönen: Älykäs tietokone — Superaivo vai Frankensteinin hirviö? (Intelligent computer — Super brain or the monster of Frankenstein?) "Lecture of the week", national radio program series (YLE). Published in: *Arpakannus*, No 2, 1993.
582. E. Hyvönen: Älykäs tietokone — Superaivo vai Frankensteinin hirviö? (Intelligent computer — Super brain or the monster of Frankenstein?) Revised version of the previous item, *Elanto*, 1994.
583. E. Hyvönen: Taipuuko elämä algoritmiksi? (Is life only an algorithm?) *Yliopisto*, 1995.
584. E. Hyvönen: Tietojenkäsittely ja elämän arvoitus (Computer science and the question of life). *Tietoviikko*, 15.2.2001.
585. E. Hyvönen: Tuleeko tietokoneesta inhimillinen? (Will the computer become human?) *Tiede*, No.2, 2002.
586. E. Hyvönen: Älykäs, elävä tietokone. (Intelligent, living computer) *Databitti*, 2002.
587. E. Hyvönen: Voiko tietokone olla elävä? (Can a computer be alive?) *Mitä, missä, milloin (MMM) -vuosikirja*, Otava, 2003.

## F. Public Artistic Activities

### G. Theses

588. E. Hyvönen: *Verkkokieliin perustuvan Editor-ohjelmiston suunnittelu ja toteutus* (Design and implementation of an editor based on graph grammars). Master's Thesis, Helsinki University of Technology, Department of Electrical Engineering, Digital Systems Laboratory, Espoo, 1981.

589. E. Hyvönen: *A Graph Grammar Formalism and Parsing Scheme for Graph Language Transformations*. Licentiate Thesis, Helsinki University of Technology, Department of Electrical Engineering, Digital Systems Laboratory, Espoo, 1984.
590. E. Hyvönen: *Constraint Reasoning with Incomplete Knowledge. The Tolerance Propagation Approach*. Doctoral Dissertation. VTT Publications 72, Technical Research Centre of Finland, Espoo, 1991.

## H. Patents and Innovation Notifications

591. Tolerance propagation method. Accepted software innovation, VTT, Technical research Centre of Finland
592. Interval constraint satisfaction based spreadsheets. Accepted software innovation, VTT, Technical research Centre of Finland
593. Algebraic optimal globalization in interval function sets. Accepted software innovation, VTT, Technical research Centre of Finland
594. Automatic symbolic differentiation based on memory sharing (with S. De Pascale). Accepted software innovation, VTT, Technical research Centre of Finland
595. Interval arithmetic spreadsheets (with S. De Pascale). Accepted software innovation, VTT, Technical research Centre of Finland
596. Bounding algorithm for the density of real functions of random variables (with J. Pesonen). Accepted software innovation, VTT, Technical research Centre of Finland

## I. Audiovisual Contents and ICT Software

597. ConfermentSampo: Data service and semantic portal, 2024.
598. CoinSampo: Data service and semantic portal, 2023.
599. OperaSampo: Data service and semantic portal, 2023.
600. BookSampo 2.0: Data service and semantic portal, 2023.
601. LawSampo: Data service and semantic portal, 2023.
602. ParliamentSampo: Data service and semantic portal, 2023.
603. LetterSampo: Data service and semantic portal, 2022.
604. WarMemoirSampo: Data service and semantic portal, 2021.
605. Sampo-UI framework: <https://github.com/SemanticComputing/sampo-ui>
606. FindSampo: Data service and semantic portal. (published 17.5.2021)
607. Academysampo. Data service and semantic portal. <http://academysampo.fi> (5.2.2021)
608. LawSampo, <https://test.lawsampo.fi/>, Data service and semantic portal for publishing and using Finnish legislation and case law data originating from Finlex Data Bank of Ministry of Justice. 2019

609. FindSampo, <https://dev.loytysampo.fi/>, Tool and data service for citizen science in archeology. 2019
610. MMM Mapping Manuscript Migrations. <http://dev.mappingmanuscriptmigrations.org/> Data service and Digital Humanities portal for studying pre-modern manuscript, based on several international collections. 2019
611. WarVictimSampo 1914-1922, <https://sotasumat.narc.fi/>, Data service and semantic portal for publishing and using data related to the Finnish Civil War, Kinship Wars, and WW1, 2019.
612. NameSampo Portal for Toponomastic Research. <http://nimisampo.fi>, semantic portal, 2019-. (With research group.) Tens of thousands of users on the web.
613. BiographySampo – Finnish Biographies on the Semantic Web. <http://biografiasampo.fi> (With research group.) Tens of thousands of users on the web. 2018
614. LinDa, <http://linda.seco.cs.aalto.fi/>, Linked Data School, 2016. (With research group.)
615. Semantic Finlex, <http://data.finlex.fi/>, Finnish Law and Justice as Linked Open Data, 2016. (With research group.)
616. WarSampo, <http://www.warsampo.fi/>, semantic portal, 2015-. (With research group.) 570 000 users on the web by 2019.
617. Hipla.fi - Finnish Ontology Service for Historical Places and Maps, <http://www.hipla.fi/>, mobile service and portal prototype, 2015. (With research group.)
618. Linked Data Finland, <https://ldf.fi/>, Prototype in use of a national Linked Open data publication platform, including various tools, 2014. (With research group.)
619. TravelSampo, mobile service and portal prototype, 2012. (With research group.)
620. BookSampo, <http://www.kirjasampo.fi/>, semantic portal, 2011-. (With research group.) 2 000 000 users on the web in 2018.
621. SmartMuseum, <http://www.smartmuseum.eu/>, World Summit Award (WSA) Mobile, Abu Dhabi, 1<sup>st</sup> prize in category M-tourism and Culture, Abu Dhabi, 2010. (With research group.)
622. DataFinland, <https://www.seco.tkk.fi/linkeddata/datasuomi/>, Apps4Finland: Doing Good With Open Data, 1<sup>st</sup> prize, Tampere, Finland, 2011. (With research group.)
623. National Ontology Service ONKI, <http://onki.fi/>, National service prototype in wide living lab use in Finland, 2008-. (With research group.)
624. HealthFinland, <http://www.seco.tkk.fi/applications/terveysuomi/>, Semantic Web Challenge Award, 3<sup>rd</sup> prize, Karlsruhe, Germany, 2008. (With research group.)
625. MuseumFinland, <http://www.museosuomi.fi>, Semantic Web Challenge Award, 2<sup>nd</sup> prize, Hiroshima, Japan, 2004. (With research group.)