

Short Curriculum Vitae

April 24, 2023

Eero Antero Hyvönen

Born: May 19, 1957, Helsinki, Finland

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1. CURRENT POSITIONS

Professor (full), Aalto University, Dept. of Computer Science, 2005-.

Director, University of Helsinki, HELDIG – Helsinki Centre for Digital Humanities, 2016-

Adjunct Professor (Docent), University of Helsinki, Dept. of Computer Science, 2004-.

2. EDUCATION AND TRAINING

Areas of expertise: Semantic Web, Artificial Intelligence, Digital Humanities

- **Master of Technology** (Helsinki University of Technology, 1981), **Licentiate of Technology** (Helsinki University of Technology, 1984), **Doctor of Technology** (Helsinki University of Technology, 1991)
- **Special officer military education** (1986-87)
- **High School** (Helsingin Normaalilyseo, 1976)

3. PREVIOUS PROFESSIONAL APPOINTMENTS AND VISITS

- **University of Oxford, Visitor (Digital Humanities), 2016.**
- **University of Colorado Boulder, Visiting Scholar (Digital Humanities), 2015.**
- **University of Helsinki, Department of Computer Science, professor, 1999-2004.**
- **Helsinki Institute for Information Technology (HIIT) Principal Scientist (part-time), 2002-2004**
- **Helsinki University of Technology, assistant, researcher, special teacher, docent, 1980-2004**
- **VTT Technical Research Centre of Finland, Lab. for Information Processing, research scientist, senior research scientist, group manager 1987-1999.**
- **Electrotechnical Laboratory (ETL), Cognitive Science Section, Japan, Fellow of Science and Technology Agency, 1989-1990**
- **Industrial Experience Imatran Voima Oy (1977), Escher Wyss AG, Zürich, (1978), Automaatiotoimisto A. Hakala Ky (1978) Nokia Information Systems (1984-86.), ITT, Standard Electric Puhelinteollisuus Oy (1987), Knowledge Engineering KE Ky (1985-), Artificial Intelligence Systems Oy (1986-1987), Delisoft Ltd (1997-2000).**
- **Industrial Teaching Experience Dipoli, Palmenia Center for Continuing Education, Nokia NITECH, Hewlett-Packard Oy, NASEVA, INSKO. Invited speaker in tens of public and industrial occasions.**

4. RESEARCH AWARDS (PRIZES)

- **Best Paper Nominee, ISWC 2021 conference, 2021**
- **Decoration of Knight, First Class, Order of the White Rose of Finland, 2018**
- **LODLAM Summit Challenge 2017, Open Data Prize, Venice, 2017**
- **Best Paper Award, WHiSE 2016, at ESWC 2016**
- **Open Data Finland Challenge Award, 2015 (Semantic Finlex – Law and Justice on the Semantic Web)**
- **Apps4Finland – Doing Good with Open Data, 1. Prize, 2014 (Data and Research Challenge)**
- **Apps4Finland – Doing Good with Open Data, 1. Prize, 2014 (Data Refinement Challenge)**
- **State Award for Public Information, 2014**
- **Best paper, Sepublica 2014, at ESWC 2014**
- **Outstanding Paper Award (best paper of the academic year), Semantic Web Journal, 2012**
- **Best Paper Award, EKAW 2012 conference, Ireland, 2012**
- **IESD Challenge Award, EventMAP-application, Ireland, 2012**
- **World Summit Award (WSA) Mobile 2010, global winner, m-turism & culture, Abu Dhabi, 2010 (SmartMuseum)**
- **Apps4Finland – Doing Good with Open Data, 1. Prize, 2010 (DataFinland)**
- **Semantic Web Challenge Award (Karlsruhe, Germany), 3. Prize, 2008 (HealthFinland)**
- **Best Paper Nominee (semantic web in use), 5th International Semantic Web Conference (ISWC-2006), Athens, GA, USA**
- **Best poster paper award at the 2nd European Semantic Web Conference, Heraklion, Greece, 2004**
- **Semantic Web Challenge Award (Hiroshima, Japan), 2. Prize, 2004 (MuseumFinland)**
- **Prime Minister's Innovation Award, Quality on the Web competition (Finland), 2004 (MuseumFinland)**
- **Nordic Digital Excellence in Museums (Nodem), 2004 (MuseumFinland)**
- **American Association for Artificial Intelligence (AAAI). "Innovative Application" award, 1999 (Interval Solver for MS Excel)**

Other

- **Six Software inventions rewarded by VTT - Technical Research Centre of Finland**

- **International fellowship** Japan Science and Technology Agency, Fellow, 1989-1990.
- **Finnish stipendiary support** WSOY Foundation (2014), WSOY Foundation, 2002. "Nokia Educational Award", 2001. Runar Bäckstöm Foundation, 1996. Finnish Cultural Foundation, 1982, 1984, 1989, 2007, 2008, 2014. Technology Development Foundation, 1983. Aaltonen Foundation, 1986. Siemens Foundation, 1983, 1986. Helsinki University of Technology, 1983. Ministry of Education, 1983. Ministry of Education, 1993, 1994.

5. ACADEMIC JOURNALS & BOOK EDITORIAL BOARD MEMBERSHIPS

Editor in Journals

- *Semantic Web Journal*, member of editorial board, 2009-.
- *International Journal Semantic Web and Information Systems*, member of editorial board, 2014-
- *International Journal of Semantic Computing (IJSC)*, member of editorial board, 2007-.
- *International Journal of Metadata, Semantics and Ontologies (IJMSO)*, member of editorial board, 2005-.

Guest Editor of Special Issues of Journals

- *Semantic Web Journal*, Guest Editor of Special Issue, 2019-, 2021-
- *Journal of ASIST*, Guest Editor of Special Issue, 2021
- *Journal of Web Semantic*, Guest Editor of Special Issue, 2017-
- *Semantic Web Journal*, Guest Editor of Special Issue, 2010
- *IEEE Intelligent Systems*. Guest Editor of Special Issue, 2009.

Handbooks

- *Handbook of Culturally Aware Information Technology: Perspectives and Models*, member of editorial board
- *Encyclopedia of Artificial Intelligence (in Finnish, by Gaudeamus)*, first editor

Reviewer of Journals, Handbooks, and Encyclopedia

Semantic Web Journal, International Journal of Metadata, Semantics and Ontologies (IJMSO), InderScience, Computational Intelligence, European Journal of Information Systems. IEEE Intelligent Systems, Artificial Intelligence, North-Holland, The Journal of Logic Programming, North-Holland, Journal of Artificial Intelligence, Morgan Kaufman, Int. Journal of Interval Computations, Inst. for New Technologies, Reliable Computing, Kluwer, Constraints, Kluwer, Theoretical Computer Science (TCS), Journal of Universal Computer Science (JUCS), Interacting with Computers, Elsevier, International Journal of Human-Computer Studies, Elsevier, IEEE Transactions on Knowledge and Data Engineering, Elsevier, Journal of Web semantic, Elsevier, Handbook of Culturally Aware Information Technology: Perspectives and Models (IGI Group), Encyclopedia of Library and Information Sciences, Taylor & Francis Group, NY.

6. MEMBERSHIP IN SCIENTIFIC AND INDUSTRIAL SOCIETIES

Presidency, Board Memberships

- Board Member of Cultural Heritage Council, Finnish Heritage Agency, 2018-
- EKAW (International Conf. on Knowledge Engineering and Knowledge Management) Steering Committee, 2014-
- Extended Semantic Web Conference (ESWC) Steering Committee, member of board, 2009-2015
- FUUG (Finnish Unix User's Group) Foundation, member of board, 2000
- Finnish Software Entrepreneurs Assoc., member of board board, 1999-2001.
- President of Finnish Artificial Intelligence Society (FAIS), 1993-94, 1994-1995.
- Vice president of FAIS, 1991-1993.
- Member of board of FAIS, 1990-1991.

Ordinary Memberships

Member in various scientific societies during varying time periods: ACM, IEEE, AAAI, AISB, Swedish AI Society, Finnish: Finnish Artificial Intelligence Society, Finnish Society of Information Processing Science, Finnish Society for Science Studies, Semiotic Society of Finland, Finnish Society for Future Studies, URSA Astronomical Society

7. OTHER ACADEMIC AND PROFESSIONAL ACTIVITIES

Academic International Scientific Committees

- SwissBritNet: Swiss-British cultural exchange and knowledge networks 1600-1780, Scientific Advisory Board, (U University of Basel, Switzerland)
- EU Commission Expert Group on European Collaborative Cloud for Cultural Heritage (2021-2022)
- Cultural CHIST-ERA, Horizon 2020 Future and Emerging Technologies (FET), Scientific Advisory Board, 2021-
- The Sloane Lab: Looking back to build future shared collections, University College London (UCL), Advisory Board Member, 2021-
- Horizon Europe (HORIZON) – Expert group, RTD / Directorate-General for Research and Innovation, 2021-2022
- Review Committee of Computer Science University Departments in the Netherlands, 2021-2022
- Country representative, COST Action CA18209 - European network for Web-centred linguistic data science, Nexus Linguarum, 2019-
- Europeana Foundation, various task force memberships, e.g., Interoperability of annotations and user sets, 2019-
- Golden Agents programme, Scientific Advisory Board, Huygens Institute, the Netherlands, 2017-
- Legal Tech Lab, Member of Advisory Board, University of Helsinki, Faculty of Law, Helsinki, 2017-
- Country representative, WG2 leader, COST Action IS1310 – Reassembling the republic of letters, 2015-2018
- European University Association (EUA), Finnish Representative, Expert Group on Science 2.0/Open Data, 2015-
- CATCH - A computer science research programme for continuous access to cultural heritage. Member of the International Scientific Board, The Netherlands, 2004-2016.

- Competence Centre in Electronics-, Info- and Communication Technologies ELIKO. Member of International Advisory Board, Tallinn, Estonia, 2010-2014.
- Invited Expert of the W3C Library Linked Data (LOD) Incubator Group, 2011
- Invited Expert of the Stanford Library Linked Data Work Group, 2011
- Member of Scientific Review Panel, Free University of Berlin, Corporate Semantic Web Project, 2007-2010.
- Forschungsförderungsfonds für die gewerbliche Wirtschaft, The Austrian Federal Ministry for Transport, Innovation and Technology. Research, Innovation, Technology: Information Technology Programme (FIT-IT): Semantic Systems. Mid-Term Evaluations, Austria, 2006.
- Forschungsförderungsfonds für die gewerbliche Wirtschaft, The Austrian Federal Ministry for Transport, Innovation and Technology. Research, Innovation, Technology: Information Technology Programme (FIT-IT): Semantic Systems. International Evaluation Committee, Austria, 2004.
- Science Foundation Ireland, Digital Enterprise Research Institute (DERI) Evaluation Committee and Panel, National University of Galway, Ireland, 2002, 2003.

Co-chair/board Member in Tens of Scientific Conferences (selection 2015-19 below)

- The 13th IEEE International Conference on Semantic Computing (ICSC 2019), Newport Beach, California, Jan 30 - Feb 1, 2019.
- LDK 2019 – 2nd Conference on Language, Data and Knowledge, Leipzig, Germany, May 20 - 22, 2019.
- 3rd Workshop on Humanities in the Semantic web (WHiSe III), Leipzig, Germany, May 20 - 22, 2019.
- The 16th Extended Semantic Web Conference (ESWC 2019), Portoroz, Slovenia, June 2-6, 2019.
- The 12th IEEE International Conference on Semantic Computing (ICSC 2018), Laguna Hills, California, Jan 31 - Feb 2, 2018.
- The 15th Extended Semantic Web Conference (ESWC 2018), Heraklion, Greece, June 3-7, 2018.
- Semantics 2018, Vienna, Austria, Sept 10-13, 2018.
- DC-2018: Open Metadata for Open Knowledge, Porto, Portugal, Sept 10-13, 2018.
- The 17th International Semantic Web Conference (ISWC 2018), Monterey, California, Oct 8-12, 2018.
- The 8th Joint Semantic Web Technology Conference (KIST 2018), Awaji City, Hyogo, Japan, Oct 26-28, 2018.
- The 26th International World Wide Web Conference (WWW 2017), Perth, Australia, 3-7 April, 2017.
- The 11th IEEE Int. Conference on Semantic Computing (ICSC 2017), San Diego, Jan 30 - Feb 1, 2017.
- The 15th International Semantic Web Conference (ISWC 2016), Kobe, Japan, Oct 17-21, 2016.
- DCMI International Conference on Dublin Core and Metadata Applications (DC-2016), Copenhagen, Denmark, Oct 13-16, 2016.
- The 20th International Conference on Knowledge Engineering and Knowledge Management (EKAW 2016), Bologna, Italy, Nov 19-23, 2016.
- The 6th Joint International Semantic Technology Conference (JIST 2016), Singapore, Nov 2-4, 2016.
- The 13th Extended Semantic Web Conference (ESWC 2016), Crete, Greece, May 29 - June 2, 2016.
- 2nd Workshop on Semantic Web for Scientific Heritage - SW4SH, at ESWC 2016, Crete, May 29-30, 2016.
- 1st Workshop on Humanities in the Semantic Web - WHiSe, at ESWC 2016, Crete, Greece, May 29-30, 2016.
- The 10th IEEE International Conference on Semantic Computing (ICSC 2016), Laguna Hills, California, Feb 3-5, 2016.
- The 14th International Semantic Web Conference (ISWC 2015), Bethlehem, Pennsylvania, Oct 11-15, 2015.
- Visualizations and User Interfaces for Ontologies and Linked Data (VOILA 2015). Workshop at The 14th International Semantic Web Conference (ISWC 2015), Bethlehem, Pennsylvania, Oct, 2015.
- Intelligent Exploration of Semantic Data (IESD 2015). Workshop at The 14th International Semantic Web Conference (ISWC 2015), Bethlehem, Pennsylvania, Oct, 2015.
- DCMI Int. Conference on Dublin Core and Metadata Applications (DC 20145), Sao Paulo, Brazil, Sept 1-5, 2015.
- The 12th Extended Semantic Web Conference (ESWC 2015), Portoroz, Slovenia, May 31 - June 4, 2015.
- The 24th Int. World Wide Web Conference (WWW 2015), Web Science Track, Florence, Italy, 18–22 May, 2015.
- The 15th ICWE 2015, Engineering the Web in the Big Data Era, Rotterdam, the Netherlands, 22–26 June 2015.
- Biographical Data in a Digital World - Workshop. Amsterdam, April 9, 2015.
- The 9th IEEE Int. Conference on Semantic Computing (ICSC 2015), Anaheim, California, Feb 9-11, 2015.
- The 29th AAAI Conference on Artificial Intelligence (AAAI 2015), Austin, Texas, Jan 25-29, 2015.

Keynotes, Invited Talks, Papers, and Book Chapters (a Selection Below)

1. Keynote speaker, SKILLNET International Conference, Utrecht, the Netherlands, Nov 17-18, 2022
2. Keynote speaker, HOUSE Final Conference, Muenster, Germany, Sept 7-9, 2022s
3. Keynote speaker, DCMI Conference 2021, Oct 4, 2021
4. Keynote speaker, National eScience Symposium 2019, Amsterdam, Nov 21, 2019.
5. Keynote, Linking the Past, Brussels, Nov 22, 2019.
6. Invited talk, ICEDIG Opening Conference. Helsinki, March 6, 2018.
7. Keynote speaker, Object Biographies, International Conference. Helsinki, March 1, 2018.
8. Keynote speaker, Testing the Boundaries of Biography. International Conference. Helsinki, December 12-13, 2017.
9. Keynote speaker, Conference of Directors of National Libraries CDNL), IFLA 2017, Wroclaw, 2017
10. Invited talk, Golden Agents Kick-off Conference, Amsterdam, 2017
11. Keynote speaker, Toward a Global Infrastructure for Biographical Research, Amsterdam, 2017
12. Keynote speaker VIII Encounter of Documentation Centres of Contemporary Art, Vitoria, Spain, 2016
13. Keynote speaker, CEDAR Conference, Amsterdam, 2016
14. Keynote speaker, NordLOD Conference, Oslo, Norway, 2014
15. Invited speaker, Joint Int. Semantic Web Conference, JIST 2012, Nara, Japan, 2012

16. Invited handbook chapter, 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.
17. Invited Guest Speaker: Information Online, London, December 1-3, 2009. Two presentations: "Finnish ontology and vocabulary service ONKI"; "HealthFinland – Health information on the Semantic Web".
18. Invited handbook chapter, E. Hyvönen: "Semantic Portals for Cultural Heritage". S. Staab, R. Studer (eds.): Handbook for Ontologies, second edition, Springer-Verlag, 2009.
19. Plenary talk, "CultureSampo – Finnish Cultural Heritage on the Semantic Web". Digital Humanities 2008 (DH 2008), Oulu, Finland, June 25-28, 2008.
20. Invited paper, E. Hyvönen et al.: "Elements of a National Semantic Web Infrastructure – Case Finland on the Semantic Web". The First International Semantic Web Conference, Irvine, California, 2007.
21. Invited talk, "Pushing the Limit of Knowledge Management on the Semantic Web". Science Days, Helsinki, 2007.
22. Invited talk, Implementing Public Services on the Semantic Web - The Vision and Experiences of the National Finnish Ontology Project FinnONTO. IST 2006 Workshop: Finnish Information Society Strategy – P-P Partnership and Research as Key Enablers for E-services. Helsinki, 2006.
23. Invited lecture, "Building a Semantic eCulture Infrastructure for the Web: Experiences from MuseumFinland to CultureSampo". An Expedition to European Digital Cultural Heritage Collecting, Connecting - and Conserving? Salzburg, April 26-27, 2006.
24. Invited lecture, "Semantic Web Applications in the Public Sector in Finland - Building the Basis for a National Semantic Web Infrastructure". Norwegian Semantic Days, April 26-27, Stavanger, Norway, 2006.

Dissertations, Professorship evaluations

Custos of 8 dissertations in Aalto University, 2010-. Opponent of dissertations at VU University, Amsterdam, (2007, 2010, 2015), University of Edinburg (2009), University of Linköping (2009), Royal Institute of Technology (KTH), Stockholm (2012), University of Rennes (2014), University of Bordeaux (2019), Evaluator and advisor of several MSc and PhD students/thesis at the University of Helsinki, Helsinki University of Technology, Tampere University of Technology. Member of evaluation committees for professorships at University of Helsinki, Aalto University, Jöngköping University. Several new PhD works are currently under supervision.

Experience in Leadership

- Director of HELDIG – Helsinki Centre for Digital Humanities, (2016-)
- Vice head of Dept. of Media Technology, Aalto University (2010-2014)
- Director of the Semantic Computing Research Group (2002-).
- Principal investigator of several international EU and other projects (different times)
- National Representative in two EU COST activities (2014-2019), WG director in one
- Leader of several Finnish research projects (different times) worth millions of euros
- Director of four (4) educational/research areas, University of Helsinki, Dept. of Computer Science, 1999-2004
- Member of the Board, Kumpula Science Library, 2001-2004
- Managing Director of Delisoft Ltd, 1997-99
- Group manager, VTT Information Technology, 1996

Scientific and Technical Board and Committee Memberships

- Board Member, Finto Ontology Service Steering group, 2021-
- Board Member of Cultural Heritage Council, Finnish Heritage Agency, 2018-
- National Open Science and Research Initiative, member of steering group, 2017-2018
- EUA Science 2.0/Open Science Expert Group, Representative of Finland / UNIFI (2016-)
- KOTUS Name Archive Digitization initiative, 2016-2017
- Fenix-research programme (a national 84M euro funding programme), member of board, Technology Development Centre of Finland (Tekes), 2003-.
- Network Society Research Program, Member of Advisory Board, Helsinki Institute for Information Technology (HIIT), 2006-.
- CSC, the Finnish IT Center for Science, Language Bank, member of board, 2006-.
- Development of service sector, productivity, and competition, member of expert working group, Prime Minister's Office, 2005.
- Global ICT Professional Education Programme, Dipoli, 2003-2006. Member of the Steering Committee.
- SoftaPro Product Manager education programme, member of the steering committee, Dipoli, 2001-2003.
- Science Foundation Ireland, Research Professorship (computer science), Univ. of College Cork, Ireland, 2003.
- Science Foundation Ireland, evaluator, National University of Ireland, Galway, 2003
- Center for Software Product Business, Espoo, board member, 2001-2004.

Lots of Professorship and Docent Committee Memberships

Other Acknowledgements

- Vuoden Norssi 2017 (Norssi Alumni of the Year 2017)
- Selected one of "the 100 most important IT persons of the year in Finland", Tietoviikko Magazine, 2000

Publications

Over 500 articles and books: <http://seco.cs.aalto.fi/u/eahyvone/publications/index.php>

Major topics: Artificial Intelligence, Semantic Web, Linked Data, Digital Humanities, Language Technology
h-index (Google Scholar): 41