

James A. Hendler, PhD



Tetherless World Chair
Dept of Computer Science
Rensselaer Polytechnic Institute
Troy, NY 12180

Born April 2, 1957
USA citizen; Clearance (on request)
Social Security # (on request)

hendler@cs.rpi.edu
<http://www.cs.rpi.edu/~hendler/foaf.rdf>
<http://www.rpi.edu/~hendler>

Jim Hendler is the Tetherless World Senior Constellation Chair at Rensselaer Polytechnic Institute where he directs the "Future of Information" Project and has appointments in the Department of Computer Science and the Cognitive Science Dept. He also serves as the Associate Director of the Web Science Research Initiative headquartered at MIT. Hendler has authored about 200 technical papers in the areas of artificial intelligence, Semantic Web, agent-based computing and high performance processing. One of the inventors of the "Semantic Web," Hendler was the recipient of a 1995 Fulbright Foundation Fellowship, is a former member of the US Air Force Science Advisory Board, and is a Fellow of the American Association for Artificial Intelligence. He is also the former Chief Scientist of the Information Systems Office at the US Defense Advanced Research Projects Agency (DARPA), was awarded a US Air Force Exceptional Civilian Service Medal in 2002, and is a member of the World Wide Web Consortium's Semantic Web Coordination Group. He is the Editor in Chief of *IEEE Intelligent Systems* and is the first computer scientist to serve on the Board of Reviewing Editors for *Science*.

Fellowships and Awards

- Honorary Professor and Fellow, Univ. of Edinburgh, Scotland, 12/06-pres.
- Board of Reviewing Editors, *Science*; Editor-In-Chief, *IEEE Intelligent Systems*, 1/05-pres.
- Robert Engelmere Memorial Lecture Prize, American Assoc for Artificial Intelligence, 2005.
- Finalist, Homeland Security Award, Christopher Columbus Fellowship Foundation, 10/03.
- Recipient, US Air Force Exceptional Civilian Service Medal, 10/02.
- Chair, Web Ontology Working Group, World Wide Web Consortium, 11/01-6/04.
- Best Expository Paper Prize, American Association for Artificial Intelligence, 2000.
- Fellow, American Association for Artificial Intelligence, 1999.
- Fulbright Fellowship, Senior Researcher to Israel, CIES/USIEF, 1995-1996.

Editor/Editorial Board Membership

- Board of Reviewing Editors, *Science*, (AAAS Press)
- Editor-in-Chief, *IEEE Intelligent Systems*, (IEEE Press)
- Associate Editor, *ACM Transactions on Internet Technology*, (ACM Press)
- Associate Editor, *Artificial Intelligence*, (Elsevier)
- Chair of Advisory Board, *Web Semantics Journal*, (Elsevier)
- Editorial Board, *Computing Letters* (electronic journal)
- Associate Editor, *Connection Science* (Kluwer), 1989-1999.
- Editorial Board, *IEEE Intelligent Systems*, 1995-2004.
- Editorial Board, *Electronic Transactions on AI: Planning and Scheduling*
- Editorial Board, *ACM Computing Surveys*, 1997-2000.

Publications

Author of 1 book, editor of 6 others and ~20 book chapters.

Editor of 5 journal special issues

Author of more than 50 articles in reviewed journals and scientific publications, over 100 articles in refereed conferences, and numerous other invited papers, reports, commentaries, etc

10 Most cited publications (from Google Scholar, 7/2007)

- T. Berners-Lee, J. Hendler, and O. Lassila "The Semantic Web," *Scientific American*, 2001
- J. Hendler, "Agents and the Semantic Web," *IEEE Intelligent Systems*, 2001
- J. Hendler and D. McGuinness, "The DARPA Agent Markup Language," *IEEE Intelligent Systems*, 2000
- K. Erol, J. Hendler and D. Nau, "HTN Planning: complexity and expressivity," AAI, 1994.
Luke, L. Spector, D. Rager, and J. Hendler, "Ontology Based Web Agents," *Intl Conference on Autonomous Agents*, 1997.
- D Wu, B Parsia, E Sirin, J Hendler, D Nau, Automating DAML-S web services composition using SHOP2, *Proc. 2nd Intl Semantic Web Conference*, 2003.
- Sean Luke, Lee Spector, David Rager, James Hendler, Ontology-based Web Agents, Proceedings of the First International Conference on Autonomous Agents, 1997.
- J. Heflin and J. Hendler, "Dynamic Ontologies on the Web," AAI, 2000
- K. Erol, J. Hendler, and D. Nau, "UMCP A sound and complete procedure for HTN planning," *Proc. AI Planning Symposium*, 1994
- E. Sirin, B. Parsia, and J. Hendler, Semi-Automatic Composition of Web Services, ICEIS2003, 2003
- S. Kambhampati and J. Hendler, "A validation structure based theory of plan modification and reuse," *Artificial Intelligence*, 1992

Funding:

PI or Co-PI on over \$40 million in grants from US federal agencies.

Recipient of over \$2 million in Industrial gift funds.

Selected Media "Appearances"

- "A question of semantics," PC Magazine interview, Mar. 2007
- "The Semantic Web," Interview with Austrian Broadcasting Company, Jan 2007
- Semantic Web PodCasts – WWW 2006, MIT CSAIL interviews, others
- "The Future of Search," Interview on NPR's Mark Steiner Show, May 2004
- "The Semantic Web," Interview on BBC Radio "Material World" show, April, 2004.
- "An interview with Jim Hendler," Assoc of Info Systems SIG Semantic Web Bulletin, April, 2004.
- "The Internet and the War on Terror," WTOP Radio, September 2004.
- "OWL becomes a W3C recommendation" Numerous interviews and press releases related to the release of the OWL Web Ontology Language by the W3C, Feb 2004.

Professional Service (selected items):

- Associate Director, Web Science Research Initiative, 12/06 -- pres.
- Informatics Advisory Board, Encyclopedia of Life, 5/07 – pres.
- Developers' Day Chair, World Wide Web Conference, 2004 (USA), 2005 (Japan).
- Vice President, Semantic Web Science Association, 2002-pres.
- Conference Committee Chair, American Association for Artificial Intelligence, 2002-pres.
- Government Liaison, American Association for Artificial Intelligence, 1999-2001.
- Conference Chair, First International Semantic Web Conference, Sardinia, Italy, 2002.
- ACM Awards Doctoral Dissertation Prize Committee, (Chair, 1999) 1996-2000.
- Program Chair, National Conference on Artificial Intelligence (AAAI '99), 1999.