

James A. Hendler, PhD



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Jim Hendler is a Professor at the University of Maryland and the Director of Semantic Web and Agent Technology at the Maryland Information and Network Dynamics Laboratory. He has joint appointments in the Department of Computer Science, the Institute for Advanced Computer Studies and is an affiliate of the Institute for Systems Research. He has authored close to 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 on the Board of Reviewing Editors for *Science*.

Fellowships and Awards

- AAAI Robert Englemore Memorial Lecture Award, 2005
- Finalist, Homeland Security Award in Information Sharing, Christopher Columbus Fellowship Foundation, Oct. 2003.
- Member, NASA Earth Science Activity, Advisory Board Technical Subcommittee, 2003-pres.
- US Air Force Exceptional Civilian Service Medal, Oct 9, 2002.
- AAAI Expository Writing Award, 2000.
- Fellow, American Association of Artificial Intelligence, 1999.
- Invention of the Year Award, Univ of Maryland, 1997.
- Member, Air Force Science Advisory Board, 1998 – 2002.
- Fulbright Fellowship, Senior Researcher to Israel, CIES/USIEF, 1995-1996.
- Member, Institute for Defense Analysis, Defense Science Study Group, 1996-1997.
- Research Fellow, KISS Institute for Practical Robotics, Fairfax, VA, 1994 - pres.

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, nearly 100 articles in refereed conferences, and numerous other invited papers, reports, commentaries, etc

10 Most cited publications (citation numbers from scholar.google.com):

- T. Berners-Lee, J. Hendler, and O. Lassila "The Semantic Web," *Scientific American*, 2001 – 2040 citations
- J. Hendler, "Agents and the Semantic Web," *IEEE Intelligent Systems*, 2001 – 232 citations
- J. Allen, J. Hendler and A. Tate (eds), *Readings in Planning*, 1990 – 221 citations
- J, Hendler and D. McGuinness, "The DARPA Agent Markup Language," *IEEE Intelligent Systems*, 2000- 198 citations
- S. Luke, L. Spector, D. Rager, and J. Hendler, "Ontology Based Web Agents," *Intl Conference on Autonomous Agents*, 1997 – 147 citations
- K. Erol, J. Hendler and D. Nau, "HTN Planning: complexity and expressivity," *AAAI*, 1994 – 146 citations
- S. Kambhampati and J. Hendler, "A validation structure based theory of plan modification and reuse," *Artificial Intelligence*, 1992 – 143 citations
- J. Heflin and J. Hendler, "Dynamic Ontologies on the Web," *AAAI*, 2000 – 118 citations
- K. Erol, J. Hendler, and D. Nau, "UMCP A sound and complete procedure for HTN planning," *Proc. AI Planning Symposium*, 1994 – 114 citations
- E. Ostertag, J. Hendler, R. Diaz, and C. Braun, "Computing Similarity in a reuse library system," *ACM Trans on Software Engineering and Methodology*, 1992 – 96 citations.

Funding:

PI or Co-PI on over \$23million in grants from US federal agencies, 1986-2005.

Recipient of over \$1.5 million in Industrial gift funds, 1995-2005.

Media “Appearances” (Since 2000)

- “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.
- “A robot that jogs”, Live interview on WTOP news radio, December, 2003.
- “Interview with James Hendler on the Semantic Web” *Wirtschafts Informatik*, 44(5), 2002 481-483.
- “Interview with AI Expert,” PBS Live television interview, MPT, 12/01.
- “Artificial Intelligence”, radio talk show, *Public Interest*, National Public Radio, 10/00
- “DARPA’s Hendler looks to a more searchable Web”, *IEEE Spectrum*, 1/01
- “Robots for Kids”, *Discover Magazine* report, 12/00
- “Entrevista con: James Hendler”, *En.red.ando Web magazine*, interview (Spanish), 6/00

Professional Service (selected items):

- 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.