

James Hendler

Director, Future of Computing Institute at Rensselaer Polytechnic Institute

Troy, NY, US

Leading researcher in the Semantic Web and artificial intelligence

Biography

James Hendler is the Director of the Future of Computing Institute, Tetherless World Professor of Computer, Web and Cognitive Sciences, and Director of the RPI-IBM Artificial Intelligence Research Collaboration. Hendler is a data scientist with specific interests in open government and scientific data, data science for healthcare, AI and machine learning, semantic data integration and the use of data in government. One of the originators of the Semantic Web, he has authored over 450 books, technical papers, and articles in the areas of Open Data, the Semantic Web, artificial intelligence, and data policy and governance. He is also the former Chief Scientist of the Information Systems Office at the US Defense Advanced Research Projects Agency (DARPA) and was awarded a US Air Force Exceptional Civilian Service Medal in 2002. He is the first computer scientist ever to have served on the Board of Reviewing editors for Science. In 2010, Hendler was selected as an "Internet Web Expert" by the US government and helped in the development and launch of the US data.gov open data website. In 2013, he was appointed as the Open Data Advisor to New York State and in 2015 appointed a member of the US Homeland Security Science and Technology Advisory Committee. In 2016, became a member of the National Academies Board on Research Data and Information, in 2017 a member of the Director's Advisory Committee of the National Security Directorate of PNNL, and in 2021 became chair of the ACM's global Technology Policy Council. Hendler is a Fellow of the US National Academy of Public Administration, the AAAI, AAAS, ACM, BCS and IEEE.

Industry Expertise

Information Technology and Services, Research, Education/Learning

Areas of Expertise

Artificial Intelligence, Cybersecurity, Technology Policy, Semantic Web, Machine Learning, Computer Science, Big Data

Affiliations

Fellow, National Academy of Public Administration, Fellow, Association for the Advancement of Artificial Intelligence, Fellow, Association for Computing Machinery, Fellow, IEEE

Event Appearances

Broad Data: What Happens When the Web of Data Becomes Real
Strata Conference 2013

Increasing Access to the Web of "Broad Data"
W4A 2012

Education

Brown University
Ph.D. Computer Science

Southern Methodist University
M.S. Psychology

Yale University
B.S. Computer Science

Accomplishments

Spotlight Award - Association of Moving Image Archivists

The Spotlight Award is given in recognition of significant contributions to the field of media preservation and access at the discretion of the AMIA board. Hendler's visionary role in creating access to diverse content through semantic technologies and machine learning led the board's decision to honor his accomplishments.

Strata Data Innovation Award

The award was created to "recognize disruptive, innovative technologies in big data and data science, highlight data science as an increasing importance for companies, and showcase the highlights of the growing data community." Hendler was cited for "Most Effective Opening of Data," as exemplified by his work making federal datasets available on the federal government repository data.gov more accessible to the public.

US Air Force Exceptional Civilian Service Medal

The Department of the Air Force Decoration for Exceptional Civilian Service is the highest award granted by the Secretary of the Air Force to civilian employees of the U.S. Department of the Air Force. Nominees must have established a demonstrable pattern of excellence and achievement. James Hendler was awarded this decoration for service to the Air Force on technical issues in cybersecurity, command and control, and in relation to work performed following the events of September 11, 2001.

20 Most Innovative Professors in America
2010 Awarded by Playboy magazine

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