Artificial Intelligence and Libraries Bibliography

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The *Artificial Intelligence and Libraries Bibliography* includes over 125 selected English-language articles and books that are useful in understanding how libraries are exploring and adopting modern artificial intelligence (AI) technologies. It covers works from January 2018 through August 2023. The bibliography is available as a website and a website PDF with live links.

AI is a complex topic, but these recent overviews of general AI systems[1] and generative AI systems[2] are helpful in understanding it (both papers are open access).

Libraries have been exploring AI technology for a long time. In particular, there was an active period of experimentation from the mid-1980s through the mid-1990s that primarily focused on the use of expert systems.[3-14] Many projects used expert system shells, which simplified development; however, some projects, such as the University of Houston's Intelligent Reference Information System Project, also used AI languages, such as Prolog.[15] This period produced a significant number of library-related AI papers.

Subsequently, library interest in AI diminished until around 2018, when research activity increased.

The public release of generative AI systems in late 2022, such as ChatGPT, sparked a strong upsurge of interest in them and a rush to utilize their capabilities. Since these systems are relatively easy to use, this development may result in a significant new wave of library-oriented AI activity.

This bibliography does not cover conference proceedings, digital media works (such as MP3 files), e-mail messages, interviews, letters to the editor, presentation slides or transcripts, technical reports, unpublished e-prints, and/or weblog postings.

The bibliography has links to included works. Where possible, it uses Digital Object Identifier System (DOI) URLs. All links are subject to change. Should a link be dead, try entering it in the Internet Archive Wayback Machine.

References in this bibliography are created from information in the publisher's *online record* for the work. Some publishers may use nontraditional citation elements and patterns. Key information may be missing from the publisher's online record (e.g, volume, number, and pages). In some cases, there is online publication date information instead. If there is a citation format tool on the work's online record, the information from that tool is used.

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Dedication

In memory of Paul Evan Peters (1947-1996), founding Executive Director of the Coalition for Networked Information, whose visionary leadership at the dawn of the Internet era fostered the development of scholarly electronic publishing.

Picture of Paul Peters

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About the Author

Charles W. Bailey, Jr. is the publisher of Digital Scholarship and a noncommercial digital artist (ORCID ID: https://orcid.org/0000-0001-8453-4402).

Bailey has over 46 years of information technology, digital publishing, and instructional technology experience, including 24 years of managerial experience in academic libraries. From 2004 to 2007, he was the Assistant Dean for Digital Library Planning and Development at the University of Houston Libraries. From 1987 to 2003, he served as Assistant Dean/Director for Systems at the University of Houston Libraries.

Previously, he served as Head, Systems and Research Services at the Health Sciences Library, The University of North Carolina at Chapel Hill; Systems Librarian at the Milton S. Eisenhower Library, The Johns Hopkins University; User Documentation Specialist at the OCLC Online Computer Library Center; and Media Library Manager at the Learning Resources Center, SUNY College at Oswego.

Bailey has discussed his career in an interview in *Preservation, Digital Technology & Culture*. See Bailey's vita for more details.

Bailey has been an open access publisher for over 34 years. In 1989, Bailey established PACS-L, a discussion list about public-access computers in libraries, and *The Public-Access Computer Systems Review*, the first open access

journal in the field of library and information science. He served as PACS-L Moderator until November 1991 and as Editor-in-Chief of *The Public-Access Computer Systems Review* until the end of 1996.

In 1990, Bailey and Dana Rooks established *Public-Access Computer Systems News*, an electronic newsletter, and Bailey co-edited this publication until 1992.

In 1992, he founded the PACS-P mailing list for announcing the publication of selected e-serials, and he moderated this list until 2007.

In 1996, he established the *Scholarly Electronic Publishing Bibliography* (*SEPB*), an open access book that was updated 80 times by 2011.

In 2001, he added the *Scholarly Electronic Publishing Weblog*, which announced relevant new publications, to *SEPB*. It was published through 2013.

In 2001, he was selected as a team member of *Current Cites*, and he has was a frequent contributor of reviews to this monthly e-serial until 2020.

In 2005, he published the *Open Access Bibliography: Liberating Scholarly Literature with E-prints and Open Access Journals* with the Association of Research Libraries (also a website).

In 2005, Bailey established Digital Scholarship (http://digital-scholarship.org/), which provides information and commentary about artificial intelligence, digital copyright, digital curation, digital repository, open access, research data management, scholarly communication, and other digital information issues. Digital Scholarship's digital publications are open access. Its publications are licensed under a Creative Commons Attribution 4.0 International License or a Creative Commons Attribution 3.0 Unported License. Digital Scholarship is a noncommercial publisher and it accepts no advertising.

At that time, he also established *DigitalKoans*, a weblog that covers the same topics as Digital Scholarship. From April 2005 through May 2023, *DigitalKoans* published over 15,000 posts.

From April 2005 through December 2022, Digital Scholarship had over 39 million page views from over 13 million visitors from 235 countries (excluding spiders and non-content files).

From April 2005 through August 2023, Bailey published the following books and book supplements: the *Scholarly Electronic Publishing Bibliography: 2008 Annual Edition* (2009), Digital Scholarship 2009 (2010), *Transforming Scholarly Publishing through Open Access: A Bibliography* (2010), the *Scholarly Electronic Publishing Bibliography 2010* (2011), the *Digital Curation and Preservation Bibliography 2010* (2011), the *Institutional Repository and ETD Bibliography 2011* (2011), the *Digital Curation Bibliography: Preservation and Stewardship of Scholarly Works* (2012), the *Digital Curation Bibliography: Preservation and Stewardship of Scholarly Works, 2012 Supplement* (2013), and the *Research Data Curation and Management Bibliography* (2021).

He also published and updated the following bibliographies, webliographies, and weblogs: the *Scholarly Electronic Publishing Bibliography* (1996-2011), the *Scholarly Electronic Publishing Weblog* (2001-2013), the *Electronic Theses and Dissertations Bibliography* (2005-2021), the *Google Books Bibliography* (2005-2011), the *Institutional Repository Bibliography* (2009-2011), the *Open Access Journals Bibliography* (2010), the *Digital Curation and Preservation Bibliography* (2010-2011), the *E-science and Academic Libraries Bibliography* (2011), the *Digital Curation Resource Guide* (2012), the *Research Data Curation Bibliography* (2012-2019), the *Altmetrics Bibliography* (2013), the *Transforming Peer Review Bibliography* (2014), the *Academic Library as Scholarly Publisher Bibliography* (2018-2023), the *Research Data Sharing and Reuse Bibliography* (2021), the *Research Data Publication and Citation Bibliography* (2022), *Digital Curation Certificate and Master's Degree Programs* (2023), the *Academic Libraries and Research Data Management Bibliography* (2023), and the *Artificial Intelligence and Libraries Bibliography* (2023).

In 2011, he established the LinkedIn Digital Curation Group.

In 2010, Bailey was given a Best Content by an Individual Award by *The Charleston Advisor*. In 2003, he was named as one of *Library Journals*' "Movers & Shakers." In 1993, he was awarded the first LITA/Library Hi Tech Award for Outstanding Communication for Continuing Education in Library and Information Science. In 1992, Bailey received a Network Citizen Award from the Apple Library.

In 1973, Bailey won a Wallace Stevens Poetry Award. He is the author of *The Cave of Hypnos: Early Poems*, which includes several poems that won that award.

Bailey has written over 30 papers about artificial intelligence, digital copyright, institutional repositories, open access, scholarly communication, and other topics.

He has served on the editorial boards of *Information Technology and Libraries*, *Library Software Review*, and *Reference Services Review*. He was the founding Vice-Chairperson of the LITA Imagineering Interest Group.

Bailey is a digital artist, and he has made over 680 digital artworks freely available on social media sites, such as Flickr, under Creative Commons Attribution-NonCommercial licenses. A list of his artworks that includes links to high resolution JPEG images on Flickr is available.

He holds master's degrees in information and library science and instructional media and technology.

You can contact him at: publisher at digital-scholarship.org.

You can follow Bailey at these URLs:

Digital Artist weblog: https://charleswbaileyjr.name and RSS feed: https://charleswbaileyjr.name/feed

DigitalKoans weblog: http://digital-scholarship.org/digitalkoans/ and RSS feed: https://digital-scholarship.org/digitalkoans/feed/

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