DECLARATION OF PROFESSOR FRANK SHIPMAN

I, Frank Shipman, hereby declare as follows:

1.   I am a tenured professor and associate department head of the Department of Computer Science at Texas A&M University in College Station, Texas. I have been a professor at Texas A&M since 1997, and worked at Texas A&M as a research scientist from 1995-1997. Since 2004, I have also been Associate Director of the Texas A&M Center for the Study of Digital Libraries ("CSDL").

2.   From 1995 through roughly 2002, I worked with a team of faculty and students on the Walden's Path project at Texas A&M. This project developed a set of tools for authoring, distributing and viewing linear paths composed of annotated web pages, which we sometimes referred to as guided paths or linear paths. By 1998, we had developed several linear path authoring and viewing tools, as described in several publications, including the following:

    a.   Shipman III, Frank M., Marshall, Catherine C., Furuta, Richard, Brenner, Donald A., Hsieh, Hao-wei, and Kumar, Vijay, "Creating Educational Guided Paths over the World-Wide Web," *Educational Telecommunications, 1996: Proceedings of ED-TELECOM 96*, June 1996, pp. 326-331

    b.   Shipman, Frank M., Furuta, Richard, and Marshall, Catherine C., "Generating Web-based Presentations in Spatial Hypertext," *1997 International Conference on Intelligent User Interfaces*, (ACM conference), January 6-9, 1997, pp. 71-78

    c.   "Hypertext Paths and the World-Wide Web: Experiences with Walden's Paths," by Richard Furuta, Frank M. Shipman III, Catherine C. Marshall, Donald Brenner, and Hao-wei Hsieh, *Hypertext '97: the Eighth ACM Conference on Hypertext*, Southampton, U.K., April 6-11 1997, pp. 167-176

    d.   Shipman III, Frank M., Marshall, Catherine C., Furuta, Richard, Brenner, Donald A., Hsieh, Hao-Wei, and Kumar, Vijay, "Using Networked Information to Create Educational Guided Paths," *International Journal of Education Telecommunications*, Vol. 3, No. 4, pp. 383-400, 1997

e. Shipman III, Frank M., Furuta, Richard, Brenner, Donald, Chung, Chung-Chi, and Hsieh, Hao-wei, "Using Paths in the Classroom: Experiences and Adaptations," *Hypertext '98: The Proceedings of the Ninth ACM Conference on Hypertext and Hypermedia*, June 1998, pp. 267-276

3. As part of our work on Walden's Paths, we maintained a Walden's Path website (http://www.csdl.tamu.edu/walden/) at least as early as February 1996 or earlier. That website has always been, and remains, accessible to the public at the same URL. Over time it has described the Walden's Paths project, listed and provided access to our publications on Walden's Paths, and also provided access to our path authoring and path viewing software. From at least early 1996 until at least 2002, the Walden's Path website was regularly updated and accessible to the public. In addition, my Texas A&M homepage (www.csdl.tamu.edu/~shipman/) and the CSDL webpage have linked to the Walden's Path website since at least 1997. The Walden's Path webpage has also linked back to my homepage since at least 1996. In order to share our work on Walden's Paths with as many people as possible, the URL for the Walden's Path website was also included in some of our Walden's Paths publications, including:

a. Shipman III, Frank M., Marshall, Catherine C., Furuta, Richard, Brenner, Donald A., Hsieh, Hao-wei, and Kumar, Vijay, "Creating Educational Guided Paths over the World-Wide Web," *Educational Telecommunications, 1996: Proceedings of ED-TELECOM 96*, June 1996, pp. 326-331

b. "Hypertext Paths and the World-Wide Web: Experiences with Walden's Paths," by Richard Furuta, Frank M. Shipman III, Catherine C. Marshall, Donald Brenner, and Hao-wei Hsieh, *Hypertext '97: the Eighth ACM Conference on Hypertext*, Southampton, U.K., April 6-11 1997, pp. 167-176

c. Shipman III, Frank M., Marshall, Catherine C., Furuta, Richard, Brenner, Donald A., Hsieh, Hao-Wei, and Kumar, Vijay, "Using Networked Information to Create Educational Guided Paths," *International Journal of Education Telecommunications*, Vol. 3, No. 4, pp. 383-400, 1997

4. Attached as Exhibit 1 to this declaration is a copy of an article of which I was a co-author: "Using Networked Information to Create Educational

Guided Paths," as published in Volume 3, Issue 4 of the International Journal of Educational Telecommunications ("IJET"), in 1997.

5. The Exhibit 1 publication, which I will refer to as "Guided Paths," was an expanded version of an earlier publication that a member of our research team presented at Ed-Telecom in 1996, titled, "Creating Educational Guided Paths over the World-Wide Web," as reflected on page 399 of Guided Paths. IJET was a quarterly journal and I would have expected Guided Paths to reach IJET subscribers in late 1997 or early 1998. In publishing this article in IJET, I expected that any member of the public could order a copy of this article beginning in late 1997 or early 1998. This is reflected in the IJET table of contents, which indicates that single issues could be ordered for $20 plus $2.50 shipping. As noted on page 400 of Guided Paths, Guided Paths was a DARPA-funded project approved for public release and unlimited distribution.
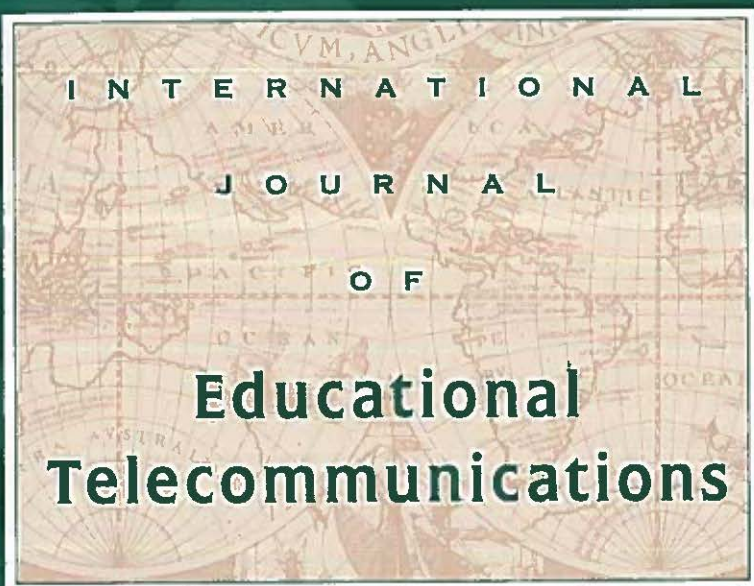
6. I have also maintained a list of my publications on my Texas A&M homepage since at least 1997, regularly updating that list to include recent publications. In at least that same timeframe, I also made a CV accessible from my website, which listed all of my publications, including the Walden's Paths publications. I began listing the IJET Guided Paths publication on my web-accessible CV at least as early as October 1997, as confirmed by the Internet Archive of my CV available at: https://web.archive.org/web/19971015122332/http://www.csdl.tamu.edu:80/~shipman/vitae.html. I began listing the IJET Guided Paths publication on my Texas A&M home page at least as early as May 1998, as confirmed by the Internet Archive of my webpage available at: https://web.archive.org/web/19980525133248/http://www.csdl.tamu.edu:80/~shipman/.

I declare under the penalty of perjury under the laws of the United States of America that the foregoing is true and correct.

August 7, 2018

Professor Frank Shipman

EXHIBIT 1

INTERNATIONAL

JOURNAL

OF

Educational
Telecommunications

Volume 3, Number 4, 1997

DOCKET ALARM

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

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Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

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With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

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Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS
Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS
Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS
Sync your system to PACER to automate legal marketing.