

Curriculum Vitae

Xia Lin

Professor

The *iSchool* at Drexel
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Education:

1987 - 1993	Ph. D. in Information Science, University of Maryland at College Park
1984 - 1986	Master of Librarianship, Emory University, Atlanta, Georgia
1978 - 1982	Bachelor of Science in Mathematics, Fujian Normal University, Fuzhou, China

Work Experience:

July, 2011 – Present	Professor, <i>iSchool</i> at Drexel, College of Information Science and Technology, Drexel University.
July, 2003 – June, 2011	Associate Professor, tenured. College of Information Science and Technology, Drexel University.
July, 1997 - June 2003	Assistant Professor, College of Information Science and Technology, Drexel University.
Aug., 1993 - June 1997	Assistant Professor, School of Library and Information Science, University of Kentucky.
Aug., 1991 - Aug., 1993	Computer/systems coordinator, Pace University Law School Library, Pace University, New York.
May, 1991 - Aug., 1991	Summer Intern at Apple Computer, Inc. Conducted research on multilingual information retrieval and automatic desktop interface design. Programmed the prototype system for automatic desktop organization.

Courtesy Appointments

Guest Professor	Library of Chinese Academy of Sciences, Beijing China. Since 2005
Guest Research Professor	Institute of Information Resource Management Zhejiang University, Hangzhou, China, Since 2005
Visiting Professor –	College of Mathematics and Computing Sciences Fujian Normal University, Fuzhou, China Since 2003

Professional Memberships:

ASIS&T, ACM, IEEE, ALISE.

Editorial Board:

International Journal of Information Visualization

Advisory Board:

Digital Library Forum (Beijing, China)

Funded Research Projects:

2010-2011. \$47621. PI. Funded by Institute of Museum and Library Services (IMLS).
“Exploring Common Tools for Meaningful Concept Displays.”

2007 -2011. \$992,110. PI. Funded by IMLS.
“Developing Faculty in Digital Librarianship for the 21st Century”.

2009-2010. \$10,000. Co-PI. Funded by National Science Foundation (NSF).
“Planning Grant: I/UCRC Center for Visual Decision Informatics”

2005 - 2006. \$346,157. Co-PI. Funded by U.S. Army Medical Research.
“Predictive Syndromic Surveillance System (PS3).”

2005 - 2008. \$597,000. Co-PI. Funded by IMLS.
“Toward a Model Curriculum for the Management of Digital Information.”

2004 - 2007. \$611,648. PI. Funded by IMLS.
“Preparing Faculty in Management of Digital Information (MDI).”

2003. IBM Equipment GRANT. Co-PI. Funded by IBM
“IBM SUR Grant: Knowledge Discovery with Information Visualization.”
IBM awarded a 24-node cluster machine for the College’s research needs.

2002. \$232,800. co-PI. Funded by The Barra Foundation, Inc.
“Dexel Digital Museum Project: Historic Costume Collection.”

1999. \$47,277. PI. Sub-contract from NIST via MCP Hahnemann University.
"Development of P-CHIP Builder for National Medical Knowledge Bank."

1998. \$27,849. PI. "P-CHIP Builder for National Medical Knowledge Bank." Sub-contract from NIST via MCPHU.

1997. \$24,000. PI. "Web Client Access to MeSH and MedLine". Contract from the National Library of Medicines.

1996. \$10,000. PI. “Graphical Table of Contents for Electronic Documents,” OCLC Library and Information Science Research Grant,

Publications:

Refereed Journal Articles:

1. Lin, X., & Abels, E. (2010). Digital library education lab. *Journal of Education of Library and Information Education*, 51(2), 120-127.
2. Lin, X., Kerren, A., & Zhang, J. (2009). Challenges in human-centered information visualization: Introduction to the special issues. *Information Visualization Journal*, 8(3), 137-138.
3. Petushi, S., Marker, J., Zhang, J., Zhu, W., Breen, D., Chen, C., Lin, X., & Garcia, F. (2008). A visual analytics system for breast tumor evaluation. *Analytical and Quantitative Cytology and Histology*, 30, 279-290.
4. Zhou, X., Hu, X., Lin X., & Zhang X. (2006). Relation-based document retrieval for biomedical IR. *Transactions on Computational Systems Biology*. V, LNBI4070, 112 – 128.
5. Hu, X., Lin, T.Y., Song, I-Y., Lin, X., Yoo, I., & Song, M. (2006). A Semi-supervised efficient learning approach to extract biological relationships from Web-based biomedical digital library. *International Journal of Web Intelligence and Agent System*, 4(3), 327-339.
6. Lin, X. (2004). Information visualization and content representation. *Modern Technology of Library and Information Service*, 2004(10), 3-13.
7. White, H.D., Lin, X., Buzydlowski, J., & Chen, C. M. (2004). User-controlled mapping of significant literatures. *Proceedings of National Academy of Sciences*, 101, 5297-5302.
8. Lin, X., White, H. D., & Buzydlowski, J. (2003). Real-time author co-citation mapping for online searching. *International Journal of Information Processing & Management*, 39(5), 689-706.
9. Lin, X., & Qin, J. (2002). Converging knowledge structures into an integrated repository. *Chinese Journal of Library and Information Services*, 46(1), 5-13.
10. Chan, M. L., Lin, X., & Zeng, M. L. (2000). Structural and multilingual approaches to subject access on the web. *IFLA Journal*, 26(3), 187-197.
11. Lin, X., & Chan, M. L. (1999). Personalized knowledge organization and access for the web. *Library & Information Science Research*, 21(2), 153-172.
12. Lin, X. (1997). Map displays for information retrieval. *Journal of the American Society for Information Science*, 48(1), 40 - 54.

13. Marchionini, G., Dwiggins, S., Katz, A., & Lin, X. (1993). Information seeking in full-text end-user-oriented search systems: the roles of domain and search expertise. *Library and Information Science Research*, 15(1), 35-69.
14. Lin, X., Liebscher, P., & Marchionini, G. (1991). Graphical representations of electronic search patterns. *Journal of the American Society for Information Science*, 42(7), 469-478.
15. Marchionini, G., Meadow, C., Dwiggins, S., Lin, X., Wang, J., & Yuan, W. (1991). A study of user interaction with information retrieval interfaces: Progress report. *Canadian Journal of Information Science*, 16(4), 42-59.
16. Doszkocs, T. E., Reggia, J., & Lin, X. (1990). Connectionist models and information retrieval. *Annual Review of Information Science and Technology*, 25, 209-260.
17. Lin, X. (1988). A selected hypertext bibliography. *Educational Technology*, 28(11), 41-42.

Books:

Ding, W., & Lin, X. (2009). *Information Architecture: The design and Integration of Information Spaces. Synthesis Lectures on Information Concepts, Retrieval, and Services*. San Rafael, CA: Morgan & Claypool Publishers.

Park, J. R., & Lin, X. (to be published). *Metadata Applications in Digital Repositories and Libraries: Tools, Systems, and Architecture* (Contract signed with Chandos Publishing (Oxford) Ltd., to be published in 2011).

Book Chapters:

1. Lin, X., & Bui, Y. (2010). Information visualization. in: M. J. Bates & M. N. Maack (Eds), *Encyclopedia of Library and Information Sciences*, (3rd ed.) (Vol. 1, pp. 2735-2746). New York: Taylor & Francis Publishers.
2. Buzydlowski, J., White, H.D., & Lin, X. (2003). Term Co-occurrence Analysis as an Interface for Digital Libraries. In: Katy Borner and Chaomei Chen, (Eds.), *Visual Interfaces to Digital Libraries: Motivation, Utilization, and Socio-technical Challenges. Lecture Notes in Computer Science 2539* (pp. 133-144). Berlin, Germany: Springer-Verlag.
3. Lin, X. (1999). Visualization for the document space. In: Card, S. K., Mackinlay, J. D., & Shneiderman, B. (eds.) *Readings in Information Visualization: Using Vision to Think*. (pp. 431-440). San Francisco, CA: Morgan Kaufmann Publishers.
4. Lin, X. (1997). An experimental study on graphical tables of contents. *Annual Review of OCLC Research 1996* (pp. 88 – 90). Dublin, Ohio: OCLC.
5. Lin, X. (1995). Visualization for personal information systems. In: F. T. Marchese (ed.) *Understanding Images: Find Meaning in Digital Imagery* (pp. 107-121). Santa Clara, CA: Springer-Verlag/TELOS.

6. Marchionini, G., Liebscher, P., & Lin, X. (1991). Authoring hyperdocuments: designing for interaction. In M. Dillon (Ed.) *Interfaces for information retrieval* (pp. 119-131). Greenwell Press.

Dissertation: University of Maryland at College Park, 1993. *Self-organizing semantic maps as graphical interfaces for information retrieval*.

Co-chairs: Gary Marchionini and Dagobert Soergel

Used neural network self-organizing techniques to construct semantic maps; compared the semantic maps with human-generated semantic maps; examined values and usefulness of applying visualization and mapping techniques to interface design.

Refereed Proceedings Articles:

1. Zarro, M., & Lin, X. (2011). Using Social Tags and Controlled Vocabularies As Filters for Searching and Browsing: A Health Science Experiment. Paper to be presented at HCIR 2011, Google Campus, Mountain View, Oct. 20th, 2011.
2. Athenikos, S., & Lin, X. (2011). Search As You Think and Think As You Search: Semantic Search Interface for Entity/Fact Retrieval. Paper to be presented at HCIR 2011, Google Campus, Mountain View, Oct. 20th, 2011.
3. Athenikos, S., & Lin, X. (2011). Enabling type/Condition-specified entity/fact retrieval using semantic knowledge extracted from Wikipedia. First international workshop on searching & mining entity-relationship data (SMER2011), Hold in conjunction with CIKM2011, Oct. 28, 2011.
4. Khazraee, E., & Lin, X. (2011). Demystifying ontology. Classification & Ontology: Formal Approaches and Access to Knowledge, The International UDC Seminar, 2011. The Hague, Sept. 19-20, 2011.
5. Lin, X. (2010). Automatically-generated concept maps as a learning tool. In: *WASET'2010: World Academy of Science, Engineering and Technology* (Vol. 66, pp. 220-225). Paris, June 28-30, 2010.
6. Lin, X., & Zhao, H. (2009). Layers of author co-citation networks. *Proceedings of the 5th International Conference on Webometrics, Informetrics, and Scientometrics*. (8 pages). Dalian, China. Sept., 13-16, 2009.
7. Qin, J., Liu, X., Lin, X., & Chen, M. (2009). Using metadata for query refinement and recommendation. *Proceedings of DC2009, International Conference on Dublin Core and Metadata Applications* (pp. 15-20). Seoul, Korea October, 13-16, 2009. Available at: <http://dcpapers.dublincore.org/ojs/pubs/article/view/955>
8. Ma, S., Lu, C., Lin, X., & Galloway, M. (2009). Evaluating the metadata Quality of the IPL. *Proceedings of the ASIST'2009 Annual Meetings* (10 pages). Vancouver, Canada, Nov. 6-11, 2009. Available at: <http://www.asis.org/Conferences/AM09/open-proceedings/papers/49.xml>
9. Athenikos, S.J., & Lin, X. (2009). "WikiPhiloSofia: Extraction and visualization of facts, relations, and networks concerning philosophers Using Wikipedia". *Proceedings of the 2009 Digital Humanities Conference, DH 2009* (pp. 56 – 62). College Park, MD. June 22-25, 2009.

10. Lin, X., Li, J., & Zhou, X. (2008). Theme creation for digital collections. *Proceedings of DC2008, International Conference on Dublin Core and Metadata Applications*. (9 pages). Berlin, Germany. September 22-26, 2008. Available at: <http://dcpapers.dublincore.org/ojs/pubs/article/viewArticle/917>
11. Athenikos, S., & Lin, X. (2008). The WikiPhil Portal: Visualizing meaningful philosophical connections. *Proceedings of the Chicago Colloquium on Digital Humanities and Computer Science* (24 pages). Chicago, November 1-3, 2008.
12. Lin, X., Bui, Y., & Zhang, D. (2007). Visualization of knowledge structure. In: *IV2007: Proceedings of the 11th International Conference of Information Visualization* (pp. 476-481). Zurich, Switzerland. July 4-6, 2007.
13. Lin, X. (2007). New visual interface for author co-citation mapping. In: D. Tarres-Salinas & H. Moed (eds). *Proceedings of ISSI 2007 (the 11th International Conference of the International Society for Scientometrics and Informetrics)* (pp. 882-883). Madrid, Spain. June 25-27, 2007.
14. Lin, X., Aluker, S., Zhu, W., & Zhang, F. (2006). Dynamic concept representation through a Visual Concept Explorer.” In: *ISKO 2006, Advances in Knowledge Organization: Proceedings of the Ninth Conference of the International Society of Knowledge Organization* (pp. 367-374). Vienna, Austria. July 4 - 7, 2006.
15. Lin, X., Beaudoin, J. E., Bui, Y., & Desai, K. (2006). Exploring characteristics of social classification. In: Jonathan Furner and Joseph T. Tennis. (Eds). *Advances in classification research, Vol. 17: Proceedings of the 17th ASIS&T SIG/CR Classification Research Workshop* (19 pages). Austin, TX. November 4, 2006. Available at: <http://en.scientificcommons.org/43542511>
16. Zhou, X., Hu, X., Zhang, X., Lin, X., & Song, I.(2006). Context-sensitive semantic smoothing for the language modeling approach to genomic IR. *Proceedings of ACM SIGIR 2006* (pp. 170-177). Seattle, WA. Aug 6-11, 2006.
17. Zhou, X., Hu, X., Lin, X., Han, H., & Zhang, X. (2006). Relation-based document retrieval for biomedical literature databases. In: *DASFAA 2006: Proceedings of the 11th International Conference on Database Systems for Advanced Applications* (pp. 689-701). Singapore, April 12-15, 2006.
18. Chen, C., Lin, X., & Zhu, W. (2006). Trailblazing through a knowledge space of science: Forward citation expansion in CiteSeer. In A. Grove (Eds.), *Proceedings of the 69th Annual Meeting of the American Society for Information Science and Technology* (pp. 1-17). Austin, TX. November 3-8, 2006.
19. Zhu W. Z., Lin X., Hu X., & Bradhard, S. (2005). Visualization of protein-protein interaction network for knowledge discovery. *The Proceedings of the 2005 IEEE International Conference on Granular Computing* (pp. 123-130). Beijing, China, July 25-27, 2005.

20. Lin, X. (2005). Digital libraries research and education: An essential and a grant challenge. Paper presented at *the First iSchool I-Conference at Penn State University* (2 pages). September 28-30, 2005.
21. Lin, X., Buzydlowski, J., & White, H. D. (2004). Visual Link: An associative information visualizer. Paper presented at *InfoVis '04: the 10th annual IEEE Symposium on information visualization* (4 pages). Oct. 10-12, 2004. (This paper won the second prize award for INFOVIS'04 Contest. Available at: Information Visualization Benchmarks Repository (<http://www.cs.umd.edu/hcil/InfovisRepository/>).
22. Hu, X., Lin T.Y., Song I-Y., Lin X., Yoo, I., Lechner, M., & Song, M. (2004). Ontology-based scalable and portable information extraction system to extract biological knowledge from huge collection of biomedical Web documents. *IEEE/ACM International Conference on Web Intelligence* (pp. 77-83). Beijing, China, September 20-24, 2004.
23. Lin, X., & Morton, L. (2003). Visual mapping for medical concepts (Poster). *Proceedings of the America Medical Informatics Association (AMIA) Annual Symposium* (p. 912). Washington, D.C., Nov. 10-12, 2003.
24. Martin, K., Lin, X., & Lunin, L. (2003). User centric design and implementation of a Digital Historic Costume Collection. In: *ASIST 2003: Proceedings of the 66th ASIST Annual Meeting* (pp. 280-290). Long Beach, CA. Oct. 18-22, 2003.
25. Chen, C., McCain, K., White, H. D., & Lin, X. (2002). Mapping scientometrics (1981-2001). In: *ASIST 2002: Proceedings Of the 65th ASIST Annual Meeting* (pp. 25-34). Philadelphia, PA. November 2002.
26. Lin, X., & Qin, J. (2002). Building a topic map repository. *Knowledge Technologies Conference* (8 pages). Seattle, WA. March 11-13, 2002.
27. White, H.D., Lin, X., & Buzydlowski, J. (2001). The endless gallery: Visualizing authors' citation images in the humanities. In: *ASIST 2001: Proceedings of the 64th ASIST Annual Meeting* (pp. 182-189). Washington, D.C. November 2-8.
28. White, H. D., Lin, X., & Buzydlowski, J. (2001). Co-cited author maps as real-time interfaces for Web-based document retrieval in the humanities. In: *ACH / ALLC 2001: The Joint Conference of the Association for Computers and the Humanities and the Association for Literary and Linguistic Computing* (pp. 127-129). New York. June 13h-16, 2001.
29. Lin, X., White, H. D., & Buzydlowski, J. (2001). AuthorLink: instant author co-citation mapping for online searching. In: *Proceedings of National Online 2001* (pp. 233 – 241). New York. May 15-17, 2001.
30. Buzydlowski, J., White, H. D., & Lin, X. (2001). Co-cited author analysis as an interface for digital libraries. *JCDL Workshop on Visual Interfaces to Digital Libraries* (8 pages). Roanoke, VA. June 24 - 28, 2001.

31. White, H. D., Buzydlowski, J. & Lin, X. (2000). Co-cited author maps as interfaces to digital libraries: Designing pathfinder networks in the humanities. *IEEE International Conference on Information Visualization* (pp. 25-30). London. July 18-22, 2000.
32. Lin, X. (1999). Designing a visual interface for online searching. In: *ASIST 2002: Proceedings Of the 62th ASIST Annual Meeting* (pp. 390 - 395). Washington D.C. Oct.31-Nov. 4, 1999.
33. Lin, X. (1999). Visual MeSH. In: *SIGIR'99: Proceedings of 22nd International Conferences on Research and Development in Information Retrieval* (pp. 317-318). Berkeley, CA. August, 15-19, 1999.
34. Chan, L. M., Lin, X., & Zeng, M. L. (1999). Structural and multilingual approaches to subject access on the Web. In: *Proceedings of IFLA'99* (pp. 253-270). Bangkok, Thailand. August 25 - 28, 1999.
35. Lin, X., Hassell, L., Song, I., & Doszkocs, L. (1998). Visual interactions with Web database content. In: *CIKM'98, Workshop on New Paradigms in Information Processing and Visualization* (pp. 100 -104). Bethesda, Maryland. Nov. 3-7, 1998.
36. White, H. D., Lin, X., & McCain, K. W. (1998). Two modes of automated domain analysis: multidimensional scaling vs. Kohonen feature mapping of information science authors. In: *Proceedings of the Fifth International ISKO Conference* (pp. 57-61). Lille, France. August 25-29, 1998.
37. Lin, X. , & Chan, M. L. (1998). Knowledge Class - A dynamic structure for subject access on the Web. In Efthimiadis, E (Ed.): *Advances in Classification Research, volume 8. Proceedings of the 8th ASIS SIG/CR Classification Research Workshop* (pp. 33-42) . Washington, DC. November 1-6, 1997.
38. Lin, X. (1997). Visual Sitemap -- A SOM application to textual information visualization. In: *Proceedings of WSOM'97, first International Conference on Kohonen's Self-organizing Algorithm* (8 pages). Helsinki, Finland. June 4-6, 1997.
39. Lin, X. (1996). Graphical table of contents. In: *Proceedings of the First ACM International Conference on Digital Libraries* (pp. 45-53). Bethesda, Maryland. March 23-27, 1996.
40. Lin, X. (1995). Searching and browsing on map displays. In: *ASIS'95: Proceedings Of the 58th ASIST Annual Meeting* (pp. 13-18). Chicago, IL. Oct. 9-12, 1995.
41. Lin, X. (1995). Information visualization. In: *Proceedings of ICYCS'95, International Conference of Young Computer Scientists* (5 pages). Beijing, China. July 12-16, 1995.
42. Lin, X., Marchionini, G., & Soergel, D. (1993). Category-based and association-based map displays by human subjects. In: *Advances in Classification Research: Proceedings of the 4th ASIS Classification Research Workshop, Vol. 4* (pp. 125-142). Columbus, Ohio, October, 1993.

43. Lin, X. (1992). Visualization for the document space. *Proceedings of IEEE Visualization '92* (pp. 274-281). Boston, October 21-23, 1992.
44. Lin, X., Soergel, D., & Marchionini, G. (1991). A self-organizing semantic map for information retrieval. In: *Proceedings of the 14th Annual International ACM/SIGIR Conference on Research and Development in Information Retrieval* (pp. 262-269). Chicago, IL. Oct. 14-16, 1991.
45. Marchionini, G., Lin, X., & Dwiggins, S. (1990). Effects of the users' knowledge on searching in a hypertext environment. In: *Proceedings of the 53rd ASIS Annual Meeting* (pp. 129-142). Toronto, Canada. Nov. 4-8, 1990.

Speeches and Presentations:

Invited Feature Lecture: The Annual George Mandel Technology Lecture

“Information Visualization and Information Seeking.” Invited presentation at the Annual George Mandel Technology Lecture organized by SLA Cleveland Chapter and NOR/ASIST, Akron, Ohio. April 20, 2006.
(http://www.slis.kent.edu/~norasis/SLA_April_06_mtg.pdf)

Invited/Peer-reviewed Panel Presentations:

“Developing a Collaborative Sandbox for Digital Library Research” Roundtable presentation at *iConference 2010*, (University of Illinois at Urbana-Champaign, February 3 – 6, 2010) (organized by Xia Lin).

“Exploring Collaboration Opportunities for Teaching Digital Library Technologies” Referred panel presentation at *ALISE 2010* (Boston, January 12 -15, 2010). (Organized by Xia Lin and Yin Zhang, Kent State University).

“Interaction and content representation.” Panel presentation at the *ASIST 2006* referred panel, “Interaction: Beyond Retrieval.” Nov. 2006.

“DIO: Digital Information Organization.” Invited presentation at *JCDL 2006* Workshop on “[Developing a Digital Libraries Education Program](#).” (June 2006, Chapel Hill, NC).

“Using online repositories in LIS education.” Panel presentation at *ALISE '2006*, January 2006 (San Antonio, TX).

“MDI—Management of Digital Information, the IMLS project at Drexel,” invited presentation at the *JCDL 2005* workshop “Developing a Digital Libraries Education Program.” June 7, 2005 (Denver, CO).

“Visual Mapping and Visual Content Representation.” Presented at the panel

“Information Visualization for Searching and Browsing: Theories and Application” in *ASIST 2004*, (November 12-17, 2004, Providence, RI).

“The Endless Gallery: Visualizing a Conceptual Space.” Presented at the panel “Mapping the Knowledge” in *ASIST 2002* (November, 2002, Philadelphia).

“Digital Libraries, Knowledge Management and Information Visualization.” Presented at the *Workshop of Knowledge Management: Challenges and Opportunities for Libraries*. May, 2002, Beijing, China

“An Interactive System for Co-citation Visualization.” Presented with Howard White and Jan Buzydlowski in *the Classification Society of North American Annual Meeting (CSNA2000)*, Montreal, June 8 – 11, 2000.

"Kohonen Maps and Text Semantics." Presented in *ASIS'99* panel on "Automatic Techniques for the Visualization of Semantic Text". Nov. 2, 1999. (Abstract in *ASIS'99* proceedings, p. 813).

"The Map of Information Scientists". Presented with Howard White and Kate McKain in *ASIS'98* panel on "Research on New Interfaces for Information Visualization." October 26, 1998.

“Document Searching and SOM Algorithm” Presented in *WSOM'97* Panel on Kohonen algorithms and text applications. Helsinki, Finland. June 5, 1997.

"Graphical Displays of Term Relationships." Presented at *ASIS'97* panel on "Organizing and Representing Knowledge Graphically Using Classification Structures" *ASIS'97*. Nov. 1997. Washington, D.C.

“Interactive Graphical Interface for Information Retrieval”. Presented at *ASIS'92* panel on “Interface design before information retrieval”. *ASIS'92*, October, 1992, Pittsburgh, Pennsylvania.

Recent Referred Posters:

Naughton, R. A., Hall, C. E., Zhao, H., & Lin, X. (2010). Ph.D. Portal: Developing an Online iSchool Doctoral Student Community. Poster presented at *iConference 2010*, (University of Illinois at Urbana-Champaign, February 3 – 6, 2010).

Hall, C., Naughton, R., & Lin, X. (2009). Identifying, evaluating and recommending digital collections: a social community approach. Poster presented at the *ASIST'2009*, Vancouver, Canada, Nov. 6-11, 2009.

Khoo, M., Lin, X., & Park, J. (2009). A User-Friendly Metadata Quality Control Tool for the Internet Public Library. Poster presented at *JCDL2009 conference*, June 15-19, Austin, Texas.

- Khoo, M., Park, J., & Lin, X. (2009). The User Centered Design of a Non-Specialist Metadata Tool and Interface for the Internet Public Library. Poster presented at the *ASIST 2009* Annual Conference, Vancouver, Canada, Nov. 6-11, 2009.
- Zhao, H., Casteel, T. & Lin, X. (2009). A Dynamic Visualization Interface for Search Service. Poster presented at *iConference 2009*, Chapel Hill, North Carolina, February 8-11, 2009.
- Athenikos, S. J. & Lin, X. (2009). Visualizing Intellectual Connections among Philosophers Using the Hyperlink & Semantic Data from Wikipedia" Poster presented at *the 5th International Symposium on Wikis and Open Collaboration (WikiSym 2009)* Orlando, FL, October 25-27, 2009.
- Hall, C. E., Naughton, R. A., Lin, X. (2009). Three Rs of Digital Collections. Poster presented at *iConference 2009*, Chapel Hill, North Carolina, February 8-11, 2009.
- Galloway, M., Khoo, M., Park, J. Lin, X. (2009). Cross walking IPL Metadata to Dublin Core. Poster presented at *iConference 2009*, Chapel Hill, North Carolina, February 8-11, 2009.
- Athenikos, S. J. and Lin, X. (2008). "The WikiPhil Portal: Extraction, Analysis, and Visualization of Philosophical Connections using Wikipedia" (Poster). Fall 2008 North East DB/IR Day (Univ. of Pennsylvania, Philadelphia, PA, USA, 14 October 2008).
- Zeng, M. L., Fan, W., & Lin, X. (2008). SKOS for an integrated vocabulary structure. Poster presented at *DC2008* conference and received the Best Poster Award.

System Demonstrations at Conferences:

- Lin, X. (2007). "Visualization Summit: By 2010, We will have ... " The First Visualization Summit (ETH Science City, Zurich, Switzerland, July 5, 2007, <http://www.ia.arch.ethz.ch/summit.htm>). Available at: <http://project.cis.drexel.edu/summit/>
- "Visual Link: An Associative Information Visualizer." System demonstrated at INFOVIS'04, October, 2004, Austin, TX.
- "Interactive Visualization System with Multidimensional Scaling." Poster presentation at ASIS&T'2002, with Min Song.
- " Drag-and-drop techniques for MEDLINE searching." System demonstration at SIGIR'99, Berkeley, CA, August 1999 (abstract in Proceedings of SIGIR'99, pp. 328).

“Visual Sitemap.” System demonstration at WSOM’97. Helsinki, Finland, July 1997.

“Visual Displays of SIGIR documents.” System demonstration at SIGIR’95, Seattle, WA, August 1997 (abstract in Proceedings of SIGIR’95, pp. 364).

Other Presentations:

1. “Digital Libraries Research and Applications.” Invited presentation at the Department of Information Management, Beijing Normal University, July 28, 2010. Two hours talk.
2. “Innovations in Digital Library and Content Management Systems.” Presented at the ADL 2010: Advanced Digital Libraries Seminar, Harbin, China. July 21-23, 2010. 30 minutes talk.
3. “Evaluation of Digital Collections and Digital Repositories.” Presented at the ADL 2010: Advanced Digital Libraries Seminar, Harbin, China. July 21-23, 2010. 30 minutes talk.
4. “Information visualization and its application in libraries.” Presented at the ADL 2010: Advanced Digital Libraries Seminar, Harbin, China. July 21-23, 2010. 40 minutes talk.
5. “Data Mashup and its Applications in libraries.” Presented at the Advanced Digital Libraries Seminar organized by Shanghai JiaoTong University and John Hopkins University. Dec. 16-18, 2008, Shanghai, China. One hour Talk.
6. “Case study: Redesigning IPL Digital Libraries.” Presented at The Advanced Digital Libraries Seminar organized by Shanghai JiaoTong University and John Hopkins University. Dec. 16-18, 2008, Shanghai, China. 45 minutes Talk.
7. “Digital Libraries and Digital Library Labs.” Presented at the International Seminar on Innovation of Information Services organized by People’s University. Beijing, China. Dec. 21, 2008. 25 minutes talk.
8. “Information Analysis and Visual Analytics.” Presented at the National Science of Library of the Chinese Academy of Sciences, Beijing, China. Dec. 22, 2008. Two hours’ talk.
9. “Knowledge Visualization and Knowledge Discovery.” Invited presentations at the Strategies and Practices in Digital Library Frontier, The Advanced Digital Library Seminar, 2007, Guilin, China. Aug. 13-16, 2007.
10. “Use of Open Source Software for Digital Libraries,” Invited presentations at the Strategies and Practices in Digital Library Frontier, The Advanced Digital Library Seminar, 2007, Guilin, China. Aug. 13-16, 2007.

11. "Information Visualization and Visual Analytics", and "Digital libraries Technology Trends." Two invited presentations presented at the Strategies and Practices in Digital Library Frontier, The third Advanced DL Seminar, 2006, Beijing, China. Organized by Tsinghua University Libraries and Stanford University Libraries. Aug. 14-16, 2006.
12. "Information Visualization and Digital Libraries," and "Digital Collections and Digital Information Organization." Two invited presentations presented at The International Seminar on the Development of Digital Library, Taipei, China. Organized by the Department of Library and Information Science, Taiwan University. Aug. 10-11, 2006.
13. "Information visualization and digital libraries." Invited presentation at Research and Development Frontiers in Digital Libraries, The 2nd Advanced DL Seminar, 2005, Xiamen, Fujian, China. Organized by Xiamen University Library, Sponsored by China Academic Library and Information System (CALIS), July 4-8, 2005.
14. "Current Technologies of Digital Repositories and Digital Libraries." Presented at Digital Library Technologies and Standards, an Advanced Workshop. Hangzhou, Zhejiang, China. Organized by the library associations of Zhejiang Province, Jiangsu Province, and Shanghai, July 1-2, 2005.
15. "Advanced interfaces for Content-based Browsing." Presented at International Symposium of Academic and Industry on Digital Libraries, Beijing. Organized by Wanfang Data, Ltd. June 27, 2005.
16. "XML Workshop for Librarians," presented at the Lebanon Valley College (for the regional library consortium). June 3, 2005.
17. "Research in Digital Libraries and Information Visualization." The National Library of China, Beijing, China. May 2002.
18. "Comparison of Graphic Techniques for the Presentation of Co-Occurrence Data." The Classification Society of North American Annual Meeting (CSNA2000). Montreal, June 8 – 11, 2000. (with Howard White and Jan Buzydlowski).
19. "Visualizing and Interacting with Database Contents." Presented at Siemens Corporate Research, Princeton, NJ. December, 1999.
20. "Knowledge Mapping and Information Retrieval." Presented at NEC Research Institute, Princeton, NJ. July, 1999.
21. "Information Visualization: Ten Years in Review." Keynote presentation at the Information Visualization Symposium, Department of Information Science, University of Pittsburgh. March, 1998.
22. "VIRI: Visual Information Retrieval Interfaces." SIGIR'95 Workshop co-hosted with Robert Korfhage and David Dubin. (Abstract in Proceedings of SIGIR'95, pp. 377).

23. "Towards a Theory of Map Displays for Information Retrieval". Presented at the cognitive science research group at Bellcore, November, 1991.
24. "Tools for Self-organizing Computer Desktops". Presented at the information access research group, Apple computer, July, 1991.
25. "Effects of the User's Knowledge on Browsing in a Full Text Database". Presented at the Open House, Human-computer interface Laboratory, University of Maryland Computer Center, June 1991.
26. "A Fuzzy Model of Document Representation based on Neural Nets." Presented in the Doctoral forum at 52nd ASIS Annual Meeting, October 1989.
27. "Personal Information Systems." Presented at the College's Research forum, College of library and information services, University of Maryland, September 1989.

Teaching:

Curriculum Activities

- New courses proposed, developed, and taught
 - 1998 INFO340 Programming Internet Information Systems I,
 - 1999 INFO341 Programming Internet Information Systems, II
 - 1999 INFO654 Programming Internet Information Systems, I
 - 2000 INFO655 Programming Internet Information Systems, II
 - 2001 INFO653 Digital Libraries
 - 2002 INFO658 Information Architecture
 - 2006 INFO780 Foundations of Digital Information Organization
 - 2008 INFO657 Digital Library Technology
 - 2009 INFO 840 Issues in Information Studies

Courses Taught

Undergraduate:

- info110 Human Computer Interactions
- info300 Information Retrieval Systems
- info210 Database Management Systems
- isys340 Programming Internet Information Systems, I
- isys341 Programming Internet Information Systems, II

Graduate:

- info624 Information Retrieval Systems
- info653 Digital Libraries
- info655 Programming Internet Information Systems
- info658 Information Architecture
- info780 Foundations of Digital Information Organization
- info657 Digital Library Technology
- info830 Issues in Information Studies

Doctoral Students Graduated

Advisor for:	Marie Synnestvedt	graduated 2007
	Sofia Athenikos	graduated 2011

Thesis Committee for:

Don Pellegrino	graduated 2011
Palakorn Achananuparp	graduated 2010
Shanshan Ma	graduated 2010
Thippaya Chintakovid	graduated 2009
Weizhong Zhu	graduated 2009
Yolanda Jones	graduated 2008
Xiaoning Sun	graduated 2008
Davis Zhou	graduated 2008
Jodi Williams	graduated 2007
Lawrence Reeve	graduated 2007
Illhoi Yoo	graduated 2006
Min Song	graduated 2005
Jeff Hand	graduated 2004
Linda Marion	graduated 2004
Saiful Islam (Engineering)	graduated 2004
Jan Buzydlowski	graduated 2003
James Dullea	graduated 1998
Gail Stringer	graduated 1998

Professional Service

Recent Conference Activities

Conference/panel Organizing:

- CTS2011, Demonstration Chair for the 2011 International Conference on Collaboration Technologies and Systems
- ALISE 2010, Organized a panel on “Exploring Collaboration Opportunities for Teaching Digital Library Technologies”
- iConference2010, Organized a panel on “Developing a Collaborative Sandbox for Digital Library Research”
- WASET’2010, Section chair
- ADLS2010, Steering Committee
- ADLS2009, Steering Committee
- JCDL2005, System Demonstration Chair

Program Committee:

- 2010 : iConference2010, SIGIR2010, CIKM2010, KDIR2010,
- 2009: CIKM2009, ICIS2009, ASIST2009
- 2008: SIGIR2008, ASIST2008, VDA2008

Journal Paper Review

The following is a partial list of journals for which I have reviewed at least one paper in recent years:

- International Journal of Information Visualization (serving on the Editorial Board)
- Journal of the American Society for Information Science and Technology
- International Journal of Information Processing & Management
- Journal of Education in Library and Information Science
- Journal of Digital Libraries
- ACM Transactions on Information Systems
- IEEE Transactions on Intelligent Transportation Systems
- IEEE Journal of Systems, Man and Cybernetics, Part A
- IEEE Transactions on Intelligent Transportation Systems, Journal of Health Geographics
- MIS Quarterly
- The Electronic Library

Major Committees served at the College

- 2009 – 2010, Tenure & Promotion Committee, Chair
 - Doctoral Committee
 - Summer Search Committee
 - International Program Coordinator
- 2008- 2009, Tenure & Promotion Committee
 - Search committee
 - Summer Search Committee
 - Cluster Leader, IR/IV/Bibliometrics cluster
- 2007-2008, Tenure & Promotion Committee, Chair
 - Doctoral Committee
- 2006- 2007, Tenure & Promotion Committee
 - Search Committee
- 2005-2006, (sabbatical year)
- 2004-2005, Tenure & Promotion Committee
 - Doctoral Committee
 - Curriculum Committee
- 2003-2004, Tenure & Promotion Committee
 - Search Committee
- 2002-2003, IR/IV/Cluster leader
- 2001-2002, Doctoral Committee
 - Search Committee
 - IR/IV Cluster leader

Major Committees served at the University

- 2009-2010, Sabbatical Committee

Senate Academic Support Committee

2008-2009, Sabbatical Committee
Senate Academic Support Committee

2007-2008, Sabbatical Committee

2004-2005, University Library Director Search Committee
IST Dean Review Committee

2002-2003 Library Advisory Committee (LAC)

2001-2002, Computer Advisory Committee (CAC)

Research Prototypes:

AuthorMap: a visualization prototype for author co-citation analysis and for retrieval. It explores author relationships through visualizing co-citation patterns. AuthorMap currently attaches to ISI Arts & Humanities Citation Index (AHCI), 1988-1997, about 1.26 million records:

<http://project.cis.drexel.edu/authormap/>

Visual Concept Explorer (VCE): a visualization interface that generates instant concept maps using the Unified Medical Language System (UMLS) co-occurrence database. It visualizes complex relationships among medical concepts. The visual interfaces are useful in helping the user understand concepts related to his queries, and suggesting related terms for use in the queries. Access to VCE here:

<http://cluster.cis.drexel.edu/vce/>

Digital Museum: a Web presentation of historic costumes housed at Drexel University. The project seeks to provide an aesthetic and pleasurable digital environment for viewing the wealth information of historic collections. It serves as a test case for studies in HCI and information architecture design. Some items from the collection are viewable in 3D panorama. See it here:

<http://digimuse.cis.drexel.edu/>

What's New: A exploratory visual interface for PUBMED search engine. It provides an overview of a search result before showing the details. The overview display indicates the distribution of search results over the last 10 years and shows new concepts that occur each year. The user can refine the search through Boolean queries constructed visually. Try it here:

<http://cluster.cis.drexel.edu/informatics/WhatsNew.html>

MedLine Search Assistant: An online searching interface that makes it possible to construct and modify queries visually. When the user starts a search with a simple query, the Assistant displays a list of MeSH terms related to the query. The user then can simply drag additional terms to the three concept boxes to modify the

query. The Assistant responds with instant “number of hits” each time the query is modified. Try the demo at: <http://project.cis.drexel.edu/medline/>

Knowledge Class: Knowledge Class is a Java servlet-based knowledge organizing tool tailored to individual users' interests and needs. A knowledge class consists of a hierarchically structured collection of controlled or natural language terms on a particular discipline or a specific topic. The demo (an account is needed) is available at <http://project.cis.drexel.edu/kclass/>

Map of Information Scientists: One hundred twenty most-frequently cited authors in information science are mapped to a visual display based on their co-citation patterns. The result is a meaningful subject map of information science, with key authors of each area highlighted. The map is also connected to search engines so that publications of these authors are reachable with a single click.

<http://project.cis.drexel.edu/scientist/>