

## PUBLICATIONS

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### Referred Journal Articles (\* corresponding author):

- Lu, K.**, Cai, X., Ajiferuke, I., & Wolfram, D. (Under review). Vocabulary Size and its Effect on Topic Representation.
- Lu, K.**, Joo, S., Lee, T., & Hu, R. (Under review). Factors that Influence Query Reformulations and Search Performance in Health Information Retrieval – A Multi-level Modeling Approach.
- Mao, J., **Lu, K.**, Li, G., & Yi, M. (In Press). Profiling Users with Tag Networks in Diffusion-based Personalized Recommendation. *Journal of Information Science*.
- Mao, J., **Lu, K.\***, Mu, X., & Li, G. (2015). Mining document, concept and term associations for effective biomedical retrieval – Introducing MeSH-enhanced retrieval models. *Information Retrieval Journal*, 18(5), 413-444.
- Lu, K.** & Mao, J. (2015). An Automatic Approach to Weighted Subject Indexing – An Empirical Study in the Biomedical Domain. *Journal of the Association for Information Science and Technology*, 66(9), 1776-1784.
- Lu, K.**, Ajiferuke, I., & Wolfram, D. (2014). Extending Citer Analysis to Journal Impact Evaluation. *Scientometrics*, 100(1), 245-260.
- Lu, K.** & Kipp, M.E.I. (2014). Understanding the Retrieval Effectiveness of Collaborative Tags and Author Keywords in Different Retrieval Environments – An Experimental Study on Medical Collections. *Journal of the Association for Information Science and Technology*, 65(3), 483-500.
- Mu, X., **Lu, K.**, & Ryu, H. (2014). Explicitly Integrating MeSH Thesaurus Help into Health Information Retrieval Systems: An Empirical User Study. *Information Processing and Management*, 50(1), 24-40.
- Lu, K.** & Wolfram, D. (2012). Measuring Author Research Relatedness: A Comparison of Word-based, Topic-based and Author Co-citation Approaches. *Journal of the American Society for Information Science and Technology*, 63(10), 1973-1986.
- Joo, S., Lin, S. & **Lu, K.** (2011). A Usability Evaluation Model for Academic Library Websites: Efficiency, Effectiveness and Learnability. *Journal of Library and Information Studies*, 9(2), 11-26.
- Mu, X., Ryu, H. & **Lu, K.** (2011). Supporting Effective Health and Biomedical Information Retrieval and Navigation: A Novel Facet View Interface Evaluation. *Journal of Biomedical Informatics*, 44(4), 576-586.

- Lu, K.**, Joo, S. & Wolfram, D. (2011). An Investigation of Web Resource Distribution in the Field of Information Science. *Cybermetrics*, 15(1).
- Ajiferuke, I., **Lu, K.** & Wolfram, D. (2011). Who Are the Research Disciples of an Author? Examining Publication Recitation and Oeuvre Citation Exhaustivity. *Journal of Informetrics*, 5(2), 292-302.
- Lu, K.** & Wolfram, D. (2010). Geographic Characteristics of the Growth of Informetrics Literature 1987-2008. *Journal of Informetrics*, 4(1), 591-601.
- Ajiferuke, I., **Lu, K.** & Wolfram, D. (2010). A Comparison of Citer and Citation-Based Measure Outcomes for Multiple Disciplines. *Journal of the American Society for Information Science and Technology*, 61(10), 2086-2096.
- Mu, X., **Lu, K.** & Ryu, H. (2010). Search Strategies on a New Health Information Retrieval System. *Online Information Review*, 34(3), 440-456. **(Emerald Literati Network Highly Commented Paper Award)**
- Mu, X. & **Lu, K.** (2010). Towards Effective Genomic Information Retrieval: The Impact of Query Complexity and Expansion Strategies. *Journal of Information Science*. 36(2), 194-208.
- Lu, K.** (2008). Tacit Knowledge Externalization Based on Web2.0. *Chinese Journal of Information Science*, 2, 247-251.
- Cai, Q., **Lu, K.** & Wang, JY. (2008). Research on Evaluation Indices System of the Network Database Service Benefit. *Chinese Journal of Intelligence*, 27(2), 40-42.

#### **Referred Conference Proceedings:**

- Lu, K.**, Joo, S., Lee, T., & Hu, R. (2016). Analyzing Query Reformulation Data using Multi-level Modeling. In *Proceedings of iConference 2016*. Philadelphia, Pennsylvania, USA. (Poster)
- Lu, K.**, Mao, J., Li, G. (2015). Enhancing Subject Metadata with Automated Weighting: A Comparison of Different Measures. In *Proceedings of International Conference on Asian Digital Libraries 2015 (ICADL'2015)*, Seoul, Korea. **(Best Paper Award)**
- Chiu, W., & **Lu, K.** (2015). Random Walk on Co-word Network: Ranking Terms Using Structural Features. In *Proceedings of the 2015 Annual Meeting of the Association for Information Science and Technology (ASIST'2015)*, St. Louis, Missouri, USA. (Paper)
- Chiu, W., & **Lu, K.** (2015). Paradigmatic Relations and Syntagmatic Relations: How Are They Related? In *Proceedings of the 2015 Annual Meeting of the Association for Information Science and Technology (ASIST'2015)*, St. Louis, Missouri, USA. (Poster)

- Lu, K.**, Zhao, Y., Ajiferuke, I., & Wolfram, D. (2015). How related is author topical similarity to other author relatedness measures. In *Proceedings of the International Society of Scientometrics and Informetrics Conference 2015 (ISSI'2015)*, Istanbul, Turkey. (Paper)
- Mao, J., & **Lu, K.** (2014). Leverage the associations between documents, subject headings and terms to enhance retrieval. In *Proceedings of the 7<sup>th</sup> International workshop on Exploiting Semantic Annotations in Information Retrieval (ESAIR'14)*, pp. 33-35, Shanghai, China. (Poster)
- Wang, Y., Joo, S., & **Lu, K.** (2014). Exploring topics in the field of data science by analyzing Wikipedia documents: A preliminary result. In *Proceedings of the 2014 Annual Meeting of the Association for Information Science and Technology (ASIST'2014)*, Seattle, USA. (Poster)
- Lu, K.**, & Mao, J. (2013). Automatically infer subject terms and documents associations through text mining. In *Proceedings of the 2013 Annual Meeting of the American Society for Information Science and Technology (ASIST'2013)*, Montreal, Canada. (Poster)
- Hu, R., **Lu, K.**, & Joo, S. (2013). Effects of Topic Familiarity and Search Skills on Query Reformulation Behavior. In *Proceedings of the 2013 Annual Meeting of the American Society for Information Science and Technology (ASIST'2013)*, Montreal, Canada. (Paper)
- Lu, K.**, Lu, W., Cheng, Q., Lei, S., & He, J. (2013). A Visualization Tool for Topic Evolution among Research Fields. In *Proceedings of the International Society of Scientometrics and Informetrics Conference 2013 (ISSI'2013)*. Vienna, Austria. (Poster)
- Lu, K.**, Ajiferuke, I., & Wolfram, D. (2013). Extending Citer-based Analysis to Journal Impact Evaluation. In *Proceedings of the International Society of Scientometrics and Informetrics Conference 2013 (ISSI'2013)*. Vienna, Austria. (Paper)
- Lu, K.** (2013). An Insight into Vector Space Modeling and Language Modeling. In *Proceedings of the iConference 2013*. Fort Worth, Texas, USA. (Poster)
- Joo, S. & **Lu, K.** (2012). Structural Analysis of Author Vector Space in the Field of Information Science. In *Proceedings of 2012 Annual Meeting of the American Society for Information Science and Technology (ASIST'2012)*, Baltimore, Maryland. (Poster)
- Lu, K.** & Wolfram, D. (2011). Assessing Author Research Focus Using Vector Space Modeling. In *Proceedings of 2011 Annual Meeting of the American Society for Information Science and Technology (ASIST'2011)*, New Orleans, Louisiana. (Poster)
- Tirilly, P., **Lu, K.**, & Mu, X. (2011). Predicting Modality from Text Queries for Medical Image Retrieval. In *Proceedings of the 2011 international ACM workshop on Medical Multimedia analysis and retrieval* (pp.7-12). Scottsdale, Arizona, USA. (Paper)

- Tirilly, P., **Lu, K.**, Mu, X., & Zhao, T. (2011). On Modality Classification and Its Use in Text-based Image Retrieval in Medical Databases. In *Proceedings of the 9<sup>th</sup> International Workshop on Content-based Multimedia Indexing (CBMI)*, Madrid, Spain. (Paper)
- Lu, K.** & Kipp, M.E.I. (2010). An Experimental Study on the Retrieval Effectiveness of Collaborative Tags. In *Proceedings of 2010 Annual Meeting of the American Society for Information Science and Technology (ASIST'2010)*, Pittsburgh, Pennsylvania. (Poster)
- Lu, K.** & Wolfram, D. (2010). Delineating Citation Concepts. In *Proceedings of 2010 Annual Meeting of the American Society for Information Science and Technology (ASIST'2010)*, Pittsburgh, Pennsylvania. (Poster)
- Lu, K.** & Mu, X. (2009). Query Expansion Using UMLS Tools for Health Information Retrieval. In *Proceedings of the 2009 Annual Meeting of the American Society for Information Science and Technology (ASIST'2009)*, Vancouver, British Columbia. (Paper)
- Ajiferuke, I., Wolfram, D. & **Lu, K.** (2009). A Comparison of Citer and Citation-based Measure Outcomes in the Social Sciences. In *Proceedings of 2009 Annual Meeting of the American Society for Information Science and Technology (ASIST'2009)*, Vancouver, British Columbia.. (Poster)