Yiqun Liu

Professor & Director

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Personal Profile

Yiqun Liu is now working as professor at the Department of Computer Science and Technology (DCST), director of Research and Development Affairs Office and director of the Institute for Internet Judiciary, Tsinghua University, Beijing, China. His major research interests include Web Search, User Behavior Analysis, and Web Data Mining. He is distinguished member of ACM and CCF, senior member and IEEE, a visiting professor of National Institute of Informatics (NII) in Japan and a visiting research professor of National University of Singapore (NUS).

He serves as Steering Committee co-Chair for SIGIR-AP and the co-Editor-in-Chief of Foundations and Trends in Information Retrieval (FnTIR) and also on the editorial boards of Journal of the Association for Information Science and Technology (JASIST) and Information Retrieval Journal (IRJ). He serves as General Chair of SIGIR-AP 2023, General vice Chair of SIGIR2020; Program Co-chair of SIGIR2018; (Senior) Area Chairs of ACL2018, WWW2020, EMNLP2022 and COLING2022; Program Co-chair of NTCIR-13/14; Program Co-chair of ICTIR2020; General Co-chair of AIRS2016/NTCIR-15/16 as well as (senior) program committee members of several important international academic conferences including SIGIR, WWW, KDD, IJCAI, AAAI, CIKM and WSDM. He published over 100 papers in top-tier academic conferences/journals and got over 8,000 citations according to Google scholar. He received the Best Paper Award of WSDM2022, Best Overall Paper Award of CIKM2018, Best Paper Honorable Mention Award of SIGIR2020 and SIGIR2015, Best Short Paper Honorable Mention Award of SIGIR2018 and ICTIR2019, Best Student Paper Award of SIGIR2017 and Best Paper Award of AIRS2018. He is also the recipient of Excellent Young Scientists Fund from the National Natural Science Foundation of China (NSFC) and the Leading talent in scientific and technological innovation award from the Ministry of Science and Technology of China (MOST).

Education

Bachelor of Engineering, Tsinghua University, Beijing, China, 2003;

Ph.D. in Computer Science & Technology, Tsinghua University, Beijing, China, 2007

Research Focuses and achievements

Prof. Liu is generally interested in the research areas of Web search technology and Web user behavior analysis. He has particular interests in improving search performance with the help of user behavior information.

Current commercial search engines face great challenges due to the rapid growth of WWW data and user requests. To improve their performance, he leverages the behavior information of search users, so called "wisdom of the crowd", which has been found very useful. With the support of National Natural Science Foundation of China and a number of industrial partners including Google, Baidu, Yahoo, Sogou, Tencent, Alibaba and Samsung, tangible progresses were made in this direction.

The aspects of our recent projects cover User behavior modeling, Web data quality estimation and search performance evaluation. We have published several high-quality papers in TOIS, TKDE, TWEB, JASIST, JIR, SIGIR, WWW, CIKM, WSDM and some other important journals and conferences. In total, over 30 Chinese patents were filed and more than half of them were approved. Algorithms and systems developed from these projects have been adopted by Sogou.com, one of the most popular search engines in China.

Academic services

Founding Chair of the Steering Committee of SIGIR Asia-Pacific (SIGIR-AP)

Founding Chair of Beijing ACM SIGIR Chapter (2018-2021)

General Vice Chair of the 43rd International ACM SIGIR conference on Information Retrieval (SIGIR2020).

Program Co-Chair of the 41st International ACM SIGIR conference on Information Retrieval (SIGIR2018).

Editorial Board Member of Information Retrieval Journal (IRJ, springer).

Editorial Board Member of Journal of the Association for Information Science and Technology (JASIST)

Co-Editorial in Chief of Foundations and Trends in Information Retrieval (FnTIR).

Program Co-Chair of the 10th International Conference on the Theory of Information Retrieval (ICTIR2020).

Search Track chair of the Web Conference 2020/2021 (TheWebConf2020/2021)

Area co-chair of the 56th Annual Meeting of the Association for Computational Linguistics (ACL2018)

Program Co-Chair of NTCIR-13/14/15 (NII Testbeds and Community for Information Access Research). General Co-Chair of NTCIR-16

General Co-Chair of the Twelfth Asia Information Retrieval Societies Conference (AIRS 2016).

Short Paper Co-Chair of the 40th International ACM SIGIR conference on Information Retrieval (SIGIR2017).

Sponsorship Chair of the 2015 Conference of the Association for Computational Linguistics (ACL2015).

Task coordinator of NTCIR core tasks: INTENT, INTENT-2, IMine, IMine-2.

Univeristy Services

Head of the Under-graduate Student Affairs (2007 - 2011)

Head of the Department's Student Affairs Committee (2011-2014)

Vice Chair of the Department (2011-2017)

Co-Chair of the Department (2018-2022)

Director of the Institute for Internet Judiciary (2022-now)

Director of Research and Development Affairs Office (2022-now)

Major Publications and Awards

Qian Wei-Chang Chinese Information Processing Award: first grade, 2020

Qian Wei-Chang Chinese Information Processing Award: Youth Innovation Prize, 2010

Best Paper Nomination Award / Best Poster Paper Award, Asian Information Retrieval Societies conference, AIRS 2013

Best Paper Nomination Award, AIRS 2016

Best Paper Award Honorable Mention, SIGIR 2015

Best Student Paper Award, SIGIR 2017

Best Short Paper Award Honorable Mention, SIGIR 2018

Best Overall Paper Award, CIKM 2018

Best Paper Award Honorable Mention, ICTIR 2018

Best Paper Award, AIRS 2018

Best Short Paper Award Honorable Mention, ICTIR 2019

Best Paper Award Honorable Mention, SIGIR 2020

The Science and Technology Award of Beijing, first grade, 2015.

Best Paper Award, WSDM 2022

(A complete list of publications can be found at my homepage: http://www.thuir.cn/group/~yqliu/)