UNIVERSITY OF MACAU

FACULTY OF SCIENCE AND TECHNOLOGY

DEPARTMENT of COMPUTER AND INFORMATION SCIENCE

"Article Recommendation Based on Citation Relations"

by

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Abstract

With the tremendous amount of research publications, finding relevant articles/papers for researchers to fulfill their information need becomes a significant problem. The major objective of our work is that given a particular paper, how to effectively find a set of relevant papers from an existing citation graph. Existing approaches do not take into account link semantics in the relevance computation and treat links in the citation graph as equally important. In this talk, we first present a model called Local Relation Strength by incorporating citation relations to measure the dependency between cited and citing papers. To capture the relevance strength between any two papers in the whole citation graph, another model called Global Relation Strength (GRS) is next proposed, and is evaluated on a real-world publication data set. The experimental results show that our GRS model has a promising improvement over the baseline techniques.

Biography

Qing Li is a Professor at the Department of Computer Science, City University of Hong Kong where he joined as a faculty member since Sept 1998. Meanwhile, he is a Guest Professor at the Zhejiang University and at the Zhongshan (Sun Yat-Sen) University, an Adjunct Professor at the University of Science and Technology of China, the Hunan University, and the State Key Lab of Software

Engineering, Wuhan University. He received his B.Eng. from the Hunan University, and M.Sc. and Ph.D. degrees from the University of Southern California (Los Angeles), all in computer science. His research interests include database modeling, Web services, multimedia retrieval and management, and e-learning systems. He has authored over 290 papers in technical journals (incl. ACM and IEEE Transactions) and international conferences (incl. VLDB, WWW, ICDE, ACM MM, ICDCS). He is actively involved in the research community by serving as an editor of technical journals, including ACM Transactions on Internet Technology, IEEE Transactions on Knowledge and Data Engineering, and World Wide Web, and as Conference and Program Chair/Co-Chair of numerous major international conferences. He is currently the Chairman of the Hong Kong Web Society, the Deputy Chairman of the WISE Society, a Councilor of the Database Society of Chinese Computer Federation (CCF), and a Steering Committee Member of DASFAA, ICWL, and WAIM. Prof. Li is a Fellow of IET (UK), and a senior member of IEEE (US) and CCF (China).

ALL ARE WELCOME!