

Irwin Kuo-Chin King

Department of Computer Science & Engineering
The Chinese University of Hong Kong

i) Name: **Irwin King** king@cse.cuhk.edu.hk ; <http://www.cse.cuhk.edu.hk/~king>

ii) Academic qualifications: Ph.D. (1993) and M.S. (1987), University of Southern California (USC), B.S. (1984), Caltech

1. Google Scholar (<https://bit.ly/2klWjcg>): 40,000+ citations, 91 h-index, 390+ 10-index (since 2020, 22,000+ citations, 69 h-index, 275+ 10-index)
2. DBLP (<https://bit.ly/2kBuFbu>): 98 journal manuscripts; 340+ conference papers; 25 edited volumes, 1 encyclopedia chapter, 2 books
3. Publons (<https://publons.com/researcher/2427324/irwin-king/>)
4. ORCID (<https://orcid.org/0000-0001-8106-6447>): 0000-0001-8106-6447

iv) Present academic position:

1. Pro-Vice-Chancellor (Education), CUHK, 2025–present
2. Professor, Department of Computer Science & Engineering, CUHK

iii) Academic and professional positions held (with dates):

1. Fellow of ACM, IEEE, INNS, HKIE, AAIA, and Lee Woo Sing College
2. Former President of the International Neural Network Society (INNS), 2019–2020
3. Former Governing Board of the Asia Pacific Neural Network Society (APNNS), 2006–2021
4. Associate Editor, Artificial Intelligence Journal (AIJ), 2025–present
5. Associate Editor, Neural Network (NN) Journal, 2011–present
6. Associate Editor, International Journal of Data Science and Analytics (JDSA), 2020–present
7. Associate Editor, Journal of Knowledge and Information Systems (KAIS), 2024–present
8. Associate Editor, Journal of Artificial Intelligence Science and Engineering (AISE), 2024–present
9. Former Associate Dean (Education), 2013–2019
10. Former Chairman 2020-2023 and Professor, since August 2010; Associate Professor (07/1998-08/2010); Assistant Professor (Sept. 1995-July 1998), Lecturer (07/1993-09/1995)
11. Director, Centre for ELearning Innovation and TEchnology (ELITE), CUHK, 2019–present
12. PI of Knowledge and Education Exchange Project (KEEP) and VeriGuide Project, CUHK, 2005–present
13. Director, Rich Media Big Data Analytics and Application Key Laboratory, Shenzhen Research Institute (SZRI), CUHK, since 2012
14. Visiting Professor, UC Berkeley, August 2011–July 2012; AT&T Labs Research, 2010–2012

v) Previous relevant research work:

Research interests include machine learning, social computing, web intelligence, data mining, and multimedia information processing for Big Data. He is the General Co-Chair of the WebConf 2020, ICONIP2020, WSDM 2011, RecSys 2013, and ACML 2015. He was on leave with AT&T Labs Research, San Francisco to work on big data-related projects and was also teaching Social Computing and Data Mining as a Visiting Professor at UC Berkeley.

vi) Recent and Related Publications

Section A (Recent 5 years)

1. Weibin Wu, Jianping Zhang, Victor Junqiu Wei, Xixian Chen, Zibin Zheng, **Irwin King**, Michael R. Lyu: Practical and Efficient Model Extraction of Sentiment Analysis APIs. ICSE 2023: 524-536
2. Cuiyun Gao, Jichuan Zeng, Zhiyuan Wen, David Lo, Xin Xia, **Irwin King**, Michael R. Lyu: Emerging App Issue Identification via Online Joint Sentiment-Topic Tracing. IEEE Trans. Software Eng. 48(8): 3025-3043 (2022)
3. Hou Pong Chan, Wang Chen, **Irwin King**: A Unified Dual-view Model for Review Summarization and Sentiment Classification with Inconsistency Loss. SIGIR 2020: 1191-1200
4. Aiwei Liu, Leyi Pan, Yijian Lu, Jingjing Li, Xuming Hu, Xi Zhang, Lijie Wen, **Irwin King**, Hui Xiong, Philip S. Yu: A Survey of Text Watermarking in the Era of Large Language Models. ACM Comput. Surv. 57(2): 47:1-47:36 (2025)
5. Zexuan Qiu, Jingjing Li, Shijue Huang, Xiaoqi Jiao, Wanjun Zhong, **Irwin King**: CLongEval: A Chinese Benchmark for Evaluating Long-Context Large Language Models. EMNLP (Findings) 2024: 3985-4004

Section B (Beyond 5 years)

1. Shouyuan Chen, Michael R. Lyu, **Irwin King**, Zenglin Xu: *Exact and Stable Recovery of Pairwise Interaction Tensors*. NIPS 2013: 1691-1699
2. Hongbo Deng, Jiawei Han, Michael R. Lyu, **Irwin King**: Modeling and exploiting heterogeneous bibliographic networks for expertise ranking. JCDL 2012: 71-80. **Won the Best Paper Award.**
3. Hao Ma, Dengyong Zhou, Chao Liu, Michael R. Lyu, **Irwin King**: Recommender systems with social regularization. WSDM 2011: 287-296. **Won the 2022 WSDM Test of Time Award.**
4. Hao Ma, **Irwin King**, and Michael R. Lyu. *Learning to recommend with social trust ensemble*. SIGIR 2009: 203-210. **Won the 2020 SIGIR Test of Time Award.**
5. Hao Ma, Haixuan Yang, Michael R. Lyu, **Irwin King**: SoRec: social recommendation using probabilistic matrix factorization. CIKM 2008: 931-940. **Won the 2019 CIKM Test of Time Award.**

Patents and Grants

1. Seven worldwide patents in information technology-related areas:
 - 1.1. **Irwin King**, Shenglin Zhao, Haiqin Yang, Michael Lyu, and Edward Yau, Ranking Method for Point-of-Interest, 2021.
 - 1.2. R. J. Agrawal, **I. King**, and R. Zajac, Methods, systems, and computer program products for integrated world wide web query classification, Google Patents, 2014.
 - 1.3. **Irwin King**, Jimmy Ho-Man Lee, Patrick Lau, Chi Chung Mak, and Chi Chung Chan, 中大剽檢通, The Chinese University Plagiarism IDentification Engine (CUPIDE), Hong Kong Patent No. 09100342.6, 2010.
 - 1.4. **Irwin King**, Jimmy Ho-Man Lee, Patrick Lau, Chi Chung Mak, and Chi Chung Chan, 中大剽檢通, Chinese Patent No. 200710105835.3, 2010.
 - 1.5. **Irwin King**, Jimmy Ho-Man Lee, Tak-Pang Lau, Chi Chung Mak, and Chi Chung Chan, Sistema e metodo para deteccao de similaridade dos documentos, Macau Patent no. J/000527, 2011.
 - 1.6. **Irwin King**, Jimmy Ho-Man Lee, Tak-Pang Lau, Chi Chung Mak, and Chi Chung Chan, Systems and Methods for Detecting Similarity of Documents, Singapore patent 200804446-3, May 31, 2011.
 - 1.7. **Irwin King**, Jimmy Ho-Man Lee, Patrick Lau, Chi Chung Mak, and Chi Chung Chan, 中大剽檢通, The Chinese University Plagiarism IDentification Engine (CUPIDE), Taiwan Patent No. I 368144, 2012.
2. Over HKD \$75 M in competitive and non-competitive research grants, project contracts, education, etc. Grants: Research (HKD \$10.78 M), Education (HKD \$60.23 M), Industry (HKD \$5.85 M)

Awards, Honors, and Recognitions

1. 2022 ACM WSDM Test of Time Award (<http://shorturl.at/bdDRZ>): Hao Ma, Dengyong Zhou, Chao Liu, Michael R. Lyu, **Irwin King**: Recommender systems with social regularization. WSDM 2011: 287-296
2. 2021 INNS Dennis Gabor Award for outstanding contributions to engineering applications of neural networks
3. Global AI 2000 List (<https://www.aminer.org/ai2000>) in 2020-2022
4. 2020 Asia Pacific Neural Network Society (APNNS) Outstanding Achievement Award
5. 2020 ACM SIGIR Test of Time Award (<https://sigir.org/awards/test-of-time-awards/>): Hao Ma, **Irwin King**, Michael R. Lyu: Learning to recommend with social trust ensemble. SIGIR 2009: 203-210
6. ICONIP 2020 Best Paper Award. Yaoman Li, **Irwin King**: AutoGraph: Automated Graph Neural Network. ICONIP (2) 2020: 189-201
7. 2019 ACM CIKM Test of Time Award (<http://www.cikmconference.org/cikmToTA.html>): Hao Ma, Haixuan Yang, Michael R. Lyu, **Irwin King**: SoRec: social recommendation using probabilistic matrix factorization. CIKM 2008: 931-940
8. CVPR 2019 Best Paper Finalist, Pengpeng Liu, Michael R. Lyu, **Irwin King**, Jia Xu: SelfFlow: Self-Supervised Learning of Optical Flow. CVPR 2019: 4571-4580
9. ICONIP 2017 Best Paper Award Runner-up, Shenglin Zhao, **Irwin King**, Michael R. Lyu: Geo-Pairwise Ranking Matrix Factorization Model for Point-of-Interest Recommendation. ICONIP (5) 2017: 368-377
10. CIKM 2016 Best Paper Award Runner-up, Tong Zhao, **Irwin King**: Constructing Reliable Gradient Exploration for Online Learning to Rank. CIKM 2016: 1643-1652