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Citizenship: Chinese

Education

2001 - 2007	PhD in Computer Science The University of New South Wales, Australia
1998 - 2000	Master of Computer Science The University of New South Wales, Australia
1992 - 1996	BSc in Physics Shenzhen University, China

Position(s) Held

Jul 2007 - Now	Assistant Professor in Information Systems School of Information Systems Singapore Management University, Singapore
May 2007 - Jun 2007	Lecturer School of Information Systems Singapore Management University, Singapore
Jul 2006 - Apr 2007	Research Fellow Information Retrieval Research Group (led by Professor Keith van Rijsbergen) Department of Computing Science University of Glasgow, United Kingdom
2002 - 2005	Associate Lecturer School of Computer Science and Engineering The University of New South Wales (UNSW), Australia
2002 - 2007	Database administrator School of Computer Science and Engineering The University of New South Wales (UNSW), Australia

Visiting Positions

Jun 2011 - Jul 2011	Visiting faculty, Department of Systems Engineering and Engineering Management, the Chinese University of Hong Kong (CUHK), Hong Kong, China
Dec 2009	Visiting faculty, Machine Learning Research Group, Microsoft Research Asia, Beijing, China
Aug 2009	Visiting faculty, College of Computing Georgia Institute of Technology (Hosted by Professor L. Liu and Professor C. Pu), US

Jul 2009	Visiting faculty, Department of Computer Science Carnegie Mellon University (Hosted by Professor C. Faloutsos), US
Nov 2006	Visiting research scientist Database Research Group, School of Computing National University of Singapore (Hosted by Professor B. C. OOI), Singapore

Teaching Areas

1. Business Intelligence

Research Interests

1. Information Retrieval
2. Economic-aware Text and Media Analytics
3. Multimedia Information Systems

Awards, Recognition and Honors

1. Mobile plus Cloud Computing Theme Research Program Award - 'E-Recall: A Cloud based Framework to Share, Publish and Search Large Scale of Richmedia Data', Microsoft Research, 2010 - 2013
2. Lee Foundation Fellowship for Research Excellence at SMU, 2008 - 2009
3. ACM SIGIR Student Travel Award, 2006
4. National ICT Australia Postgraduate Research Award, National ICT Australia (NICTA), Australia, 2005 - 2006

Grants

1. PI (Sole), "Analysing Ambient Audio with Social Multimedia for Location-based Recommendation", Ministry of Education (MOE), Singapore, Academic Research Fund (AcRF) Tier-2 (MOE Ref: MOE2013-T2-2-156), July 2014 - June 2017
2. PI (Sole), "My Mobile Music: Towards Cloud based Intelligent Music Recommendation on the Move", Microsoft Research Faculty Seed Grant (FY14-RES-OPP-048), Microsoft Research Asia., 2014 - 2015
3. PI, 'Investigating Impacts of Top Management's Marketing Strategy Attentions on Long Term Firm Performance', The Merlion Programme, January 2012 - December 2013
4. Collaborator, 'Vision-based Intelligent Advertisement System', Ministry of Education (MOE), Singapore, Academic Research Fund (AcRF) Tier-2 (MOE Ref: MOE2010-T2-1-087), 2011 - 2014
5. PI, 'Intelligent Learning Analytics Platform (ILAP)', The Media Development Authority of Singapore (MDA), 2008 - 2009
6. International Travel Grant, Faculty of Engineering (A\$2,000), UNSW, 2005

7. International Travel Grant, Faculty of Engineering (A\$2,000), UNSW, 2004

Editorial Boards

1. Area Editor, Electronic Commerce Research and Applications, Elsevier , 2012

Editorial Duties

1. Co-guest editor for special issue on "Multimedia Information Retrieval", International Journal of Imaging Systems and Technology (IJIST), Wiley, 2008.
2. Co-guest editor for special issue on "Visual Information Analysis for Security", Signal Processing (Elsevier), 2008.

Consultancy

1. Research Grant Referee, The Natural Sciences and Engineering Research Council of Canada (NSERC), 2009 - 2014

Journal Article

1. "Content-based Visual Landmark Search via Multi-Modal Hypergraph Learning", by Zhu, Lei; SHEN, Jialie; Jin, Hai; Zheng, Ran; Xie, Liang, 12/2015, *IEEE Transactions on Cybernetics*, 45, 12, 2756 - 2769, <http://dx.doi.org/10.1109/TCYB.2014.2383389>. (Published)
2. "On Robust Image Spam Filtering via Comprehensive Visual Modeling", by SHEN, Jialie; DENG, Robert H.; CHENG, Zhiyong; NIE, Liqiang; YAN, Shuicheng, 10/2015, *Pattern Recognition*, 48, 10, 3227 - 3238, <http://dx.doi.org/10.1016/j.patcog.2015.02.027>. (Published)
3. "Facilitating Image Search with a Scalable and Compact Semantic Mapping", by WANG, Meng; LI, Weisheng; LIU, Dong; NI, Bingbing; SHEN, Jialie; YAN, Shuicheng, 08/2015, *IEEE Transactions on Cybernetics*, 45, 8, 1561 - 1574, <http://dx.doi.org/10.1109/TCYB.2014.2356136>. (Published)
4. "Bridging the Vocabulary Gap between Health Seekers and Healthcare Knowledge", by NIE, Liqiang; ZHAO, Yiliang; Mohammad, Akbari; SHEN, Jialie; CHUA, Tat-Seng, 02/2015, *IEEE Transactions on Knowledge and Data Engineering*, 27, 2, 369 - 409, <http://dx.doi.org/10.1109/TKDE.2014.2330813>. (Published)
5. "The Effects of Multiple Query Evidences on Social Image Retrieval", by CHENG, Zhiyong; SHEN, Jialie; MIAO, Haiyan, 12/2014, *Multimedia Systems*, 1 - 15, <http://dx.doi.org/10.1007/s00530-014-0432-7>. (Advance Online)
6. "A Multi-dimensional Image Quality Prediction Model for User-generated Images in Social Networks", by YANG, You; WANG, Xu; GUAN, Tao; SHEN, Jialie; YU, Li, 10/2014, *Information Sciences*, 281, 601 - 610, <http://dx.doi.org/10.1016/j.ins.2014.03.016>. (Published)
7. "Accurate Online Video Tagging via Probabilistic Hybrid Modeling", by SHEN, Jialie; WANG, Meng; CHUA, Tat-Seng, 08/2014, *Multimedia Systems*, 1 - 15, <http://dx.doi.org/10.1007/s00530-014-0399-4>. (Advance Online)
8. "Representative Discovery of Structure Cues for Weakly Supervised Image Segmentation", by ZHANG, Luming; GAO, Yue; XIA, Yingjie; LU, Ke; SHEN, Jialie; JI, Rongrong, 02/2014, *IEEE Transactions on Multimedia*, 16, 2, 470 - 479, <http://dx.doi.org/10.1109/TMM.2013.2293424>. (Published)

9. "Learning to Recommend Descriptive Tags for Questions in Social Forums", by NIE, Liqiang; ZHAO, Yiliang; WANG, Xiangyu; SHEN, Jialie; CHUA, Tat-Seng, 01/2014, *ACM Transactions on Information Systems*, 32, 1, <http://dx.doi.org/10.1145/2559157>. (Published)
10. "Query-Document-Dependent Fusion: A Case Study of Multimodal Music Retrieval", by LI, Zhonghua; ZHANG, Bingjun; YU, Yi; SHEN, Jialie; WANG, Ye, 12/2013, *IEEE Transactions on Multimedia*, 15, 8, 1830 - 1842, <http://dx.doi.org/10.1109/TMM.2013.2280437>. (Published)
11. "Robust Image Analysis with Sparse Representation on Quantized Visual Features", by BAO, Bingkun; ZHU, Guangyu; SHEN, Jialie; YAN, Shuicheng, 03/2013, *IEEE Transactions on Image Processing*, 22, 3, 860 - 871, <http://dx.doi.org/10.1109/TIP.2012.2219543>. (Published)
12. "Visual-Textual Joint Relevance Learning for Tag-Based Social Image Search", by GAO, Yue; WANG, Meng; ZHA, Zheng-Jun; SHEN, Jialie; LI, Xuelong; Wu, Xindong, 01/2013, *IEEE Transactions on Image Processing*, 22, 1, 363 - 376, <http://dx.doi.org/10.1109/TIP.2012.2202676>. (Published)
13. "Image collection summarization via dictionary learning for sparse representation", by YANG, Chunlei; SHEN, Jialie; Peng, Jinye; Fan, Jianping, 01/2013, *Pattern Recognition*, 46, 3, 948 - 961, <http://dx.doi.org/10.1016/j.patcog.2012.07.011>. (Published)
14. "k-Partite Graph Reinforcement and its Application in Multimedia Information Retrieval", by GAO, Yue; WANG, Meng; Ji, Rongrong; ZHA, Zheng-Jun; SHEN, Jialie, 07/2012, *Information Sciences*, 194, 224 - 239, <http://dx.doi.org/10.1016/j.ins.2012.01.003>. (Published)
15. "Personalized Video Similarity Measure", by SHEN, Jialie; CHENG, Zhiyong, 10/2011, *Multimedia Systems*, 17, 5, 421 - 433, <http://dx.doi.org/10.1007/s00530-010-0223-8>. (Published)
16. "Privacy-Preserving Similarity-Based Text Retrieval", by PANG, Hwee Hwa; SHEN, Jialie; Krishnan, Ramayya, 02/2010, *ACM Transactions on Internet Technology*, 10, 1, <http://dx.doi.org/10.1145/1667067.1667071>. (Published)
17. "Does Sampling Influence Customers in Online Retailing of Digital Music?", by Hu, Nan; LIU, Ling; Bose, Indranil; SHEN, Jialie, 11/2009, *Information Systems and E-Business Management*, 7, 4, 357 - 377, <http://dx.doi.org/10.1007/s10257-009-0116-6>. (Published)
18. "A Novel Framework for Efficient Automated Singer Identification in Large Music Databases", by SHEN, Jialie; Shepherd, John; Cui, Bin; TAN, Kian-Lee, 01/2009, *ACM Transactions on Information Systems*, 27, 3, <http://dx.doi.org/10.1145/1508850.1508856>. (Published)
19. "QUC-Tree: Integrating Query Context Information for Efficient Music Retrieval", by SHEN, Jialie; Tao, Dacheng; LI, Xuelong, 01/2009, *IEEE Transactions on Multimedia*, 11, 2, 313 - 323, <http://dx.doi.org/10.1109/TMM.2008.2009719>. (Published)
20. "Stochastic Modeling Western Paintings for Effective Classification", by SHEN, Jialie, 01/2009, *Pattern Recognition*, 42, 2, 293 - 301, <http://dx.doi.org/10.1016/j.patcog.2008.04.016>. (Published)
21. "Bayesian Tensor Approach for 3D Face Modeling", by TAO, Dacheng; SONG, Mingli; LI, Xuelong; SHEN, Jialie; SUN, Jimeng; Wu, Xindong; Faloutsos, Christos; Maybank, Stephen J., 10/2008, *IEEE Transactions on Circuits and Systems for Video Technology*, 18, 10, 1397 - 1410, <http://dx.doi.org/10.1109/TCSVT.2008.2002825>. (Published)
22. "Modality Mixture Projections for Semantic Video Event Detection", by SHEN, Jialie; Tao, Dacheng; LI, Xuelong, 01/2008, *IEEE Transactions on Circuits and Systems for Video Technology*, 18, 11, 1587 - 1596, <http://dx.doi.org/10.1109/TCSVT.2008.2005607>. (Published)
23. "An Empirical Study of Query Effectiveness Improvement via Multiple Visual Feature Integration", by SHEN, Jialie; Shepherd, John; Ngu, Anne H. H., 01/2007, *International Journal of Image and Graphics*, 7, 3, 551 - 581, <http://dx.doi.org/10.1142/S0219467807002751>. (Published)

24. "Efficient Content Based Music Retrieval with Multiple Acoustic Feature Composition", by SHEN, Jialie; Shepherd, John; Ahh, Ngu, 01/2006, *IEEE Transactions on Multimedia*, 8, 6, 1179 - 1189, <http://dx.doi.org/10.1109/tmm.2006.884618>. (Published)

Conference Proceedings Article

1. "Multidimensional Context Awareness in Mobile Devices", by WEI, Zhuo; DENG, Robert H.; ZHU, Jixiang; OUYANG, Kai; SHEN, Jialie, 01/2015, *MultiMedia Modeling: 21st International Conference, MMM 2015, Sydney, NSW, Australia, January 5-7, 2015, Proceedings, Part II*, 38 - 49, Cham: Springer Verlag, http://dx.doi.org/10.1007/978-3-319-14442-9_4. (Published, Peer-Reviewed)
2. "Travel Recommendation via Author Topic Model Based Collaborative Filtering", by Jiang, Shuhui; Qian, Xueming; SHEN, Jialie; Mei, Tao, 01/2015, *MultiMedia Modeling: 21st International Conference, MMM 2015, Sydney, NSW, Australia, January 5-7, 2015, Proceedings, Part II*, 392 - 402, Cham: Springer Verlag, http://dx.doi.org/10.1007/978-3-319-14442-9_45. (Published, Peer-Reviewed)
3. "The Evolution of Research on Multimedia Travel Guide Search and Recommender Systems", by SHEN, Junge; CHENG, Zhiyong; SHEN, Jialie; MEI, Tao; GAO, Xinbo, 11/2014, *MultiMedia Modeling: 20th Anniversary International Conference, MMM 2014, Dublin, Ireland, January 6-10, 2014, Proceedings, Part II*, 227 - 238, Cham: Springer Verlag, http://dx.doi.org/10.1007/978-3-319-04117-9_21. (Published, Peer-Reviewed)
4. "Mobile Visual Search via Hiearchical Sparse Coding", by YANG, Xiyu; LIU, Lianli; QIAN, Xueming; MEI, Tao; SHEN, Jialie; TIAN, Qi, 07/2014, *IEEE International Conference on Multimedia and Expo (ICME 2014): 14-18 July 2014, Chengdu: Proceedings*, 1 - 6, Piscataway, NJ: IEEE, <http://dx.doi.org/10.1109/ICME.2014.6890294>. (Published, Peer-Reviewed)
5. "WenZher: Comprehensive Vertical search for Healthcare Domain", by NIE, Liqiang; LI, Tao; AKBARI, Mohammad; SHEN, Jialie; CHUA, Tat-Seng, 07/2014, *SIGIR '14: Proceedings of the 37th International ACM SIGIR Conference on Research and Development in Information Retrieval: July 6-11, 2014, Gold Coast, Australia*, 1245 - 1246, New York: ACM, <http://dx.doi.org/10.1145/2600428.2611176>. (Published, Peer-Reviewed)
6. "Just-for-Me: An Adaptive Personalization System for Location-Aware Social Music Recommendation", by CHENG, Zhiyong; SHEN, Jialie; MEI, Tao, 07/2014, *SIGIR '14: Proceedings of the 37th International ACM SIGIR Conference on Research and Development in Information Retrieval: July 6-11, 2014, Gold Coast, Australia*, 1267 - 1268, New York: ACM, <http://dx.doi.org/10.1145/2600428.2611187>. (Published, Peer-Reviewed)
7. "Just-for-Me: An Adaptive Personalization System for Location-Aware Social Music Recommendation", by CHENG, Zhiyong; SHEN, Jialie, 04/2014, *ICMR Glasgow 2014: Proceedings of the ACM International Conference on Multimedia Retrieval 2014: April 1-4, 2014, Glasgow*, 185 - 194, New York: ACM, <http://dx.doi.org/10.1145/2578726.2578751>. (Published, Peer-Reviewed)
8. "Multimedia Recommendation: Technology and Techniques", by SHEN, Jialie; WANG, Meng; YAN, Shuicheng; CUI, Peng, 07/2013, *SIGIR '13 Proceedings of the 36th international ACM SIGIR conference on Research and development in information retrieval*, 1131 - 1131, New York, NY, USA: ACM, <http://dx.doi.org/10.1145/2484028.2484194>. (Published, Peer-Reviewed)
9. "Technique for Authenticating H.264/SVC Streams in Surveillance Applications", by ZHUO, Wei; DENG, Robert H.; SHEN, Jialie; WU, Yongdong; DING, Xuhua; LO, Swee Won, 07/2013, *Electronic Proceedings of the 2013 IEEE International Conference on Multimedia and Expo Workshops (ICMEW 2013): 15-19 July, 2013, San Jose, California*, 1 - 14, Los Alamitos, CA: IEEE Computer Society, <http://doi.ieeecomputersociety.org/10.1109/ICMEW.2013.6618259>. (Published, Peer-Reviewed)

10. "Building a Large Scale Test Collection for Effective Benchmarking of Mobile Landmark Search", by CHENG, Zhiyong; REN, Jing; SHEN, Jialie; MIAO, Haiyan, 01/2013, *Advances in Multimedia Modeling: 19th International Conference, MMM 2013, Huangshan, China, January 7-9, 2013, Proceedings, Part II*, 36 - 46, Berlin Heidelberg: Springer Verlag, http://dx.doi.org/10.1007/978-3-642-35728-2_4. (Published, Peer-Reviewed)
11. "Towards Next-Generation Multimedia Recommendation Systems", by SHEN, Jialie; YAN, Shuicheng; HUA, Xian-Sheng, 01/2013, *MM '13 Proceedings of the 21st ACM international conference on Multimedia*, 1109 - 1110, New York, NY, USA: ACM, <http://dx.doi.org/10.1145/2502081.2502233>. (Published, Peer-Reviewed)
12. "Towards Efficient Sparse Coding for Scalable Image Annotation", by HUANG, Junshi; LIU, Hairong; SHEN, Jialie; YAN, Shuicheng, 01/2013, *MM '13 Proceedings of the 21st ACM international conference on Multimedia*, 947 - 956, New York, NY, USA: ACM, <http://dx.doi.org/10.1145/2502081.2502127>. (Published, Peer-Reviewed)
13. "Modeling Concept Dynamics for Large Scale Music Search", by SHEN, Jialie; PANG, Hwee Hwa; WANG, Meng; YAN, Shuicheng, 08/2012, *35th Annual International ACM SIGIR Conference on Research & Development on Information Retrieval (ACM SIGIR 2012)*, 455 - 464, Portland, USA: ACM, <http://dl.acm.org/citation.cfm?id=2348346>. (Published, Peer-Reviewed)
14. "Obfuscating the Topical Intention in Enterprise Text Search", by PANG, Hwee Hwa; Xiao, Xiaokui; SHEN, Jialie, 04/2012, *IEEE International Conference on Data Engineering*, 1168 - 1179, Washington D.C., USA: IEEE, <http://doi.ieeecomputersociety.org/10.1109/ICDE.2012.43>. (Published, Peer-Reviewed)
15. "Predicting Image Popularity in an Incomplete Social Media Community by a Weighted Bi-partite Graph", by NIU, Xiang; LI, Lusong; MEI, Tao; SHEN, Jialie; XU, Ke, 01/2012, *Proceedings of the IEEE International Conference on Multimedia and Expo (ICME 2000)*, 735 - 740, Melbourne, Australia: IEEE, <http://dx.doi.org/10.1109/ICME.2012.43>. (Published, Peer-Reviewed)
16. "NBS: a network-bandwidth-aware streaming version switcher for mobile streaming applications under fuzzy logic control", by Xiong, Pengcheng; SHEN, Jialie; WANG, Qingyang; Jayasinghe, Deepal; LI, Jack; Pu, Calton, 01/2012, *IEEE 1st International Conference on Mobile Services (MS)*, Honolulu, Hawaii, USA: IEEE, <http://dx.doi.org/10.1109/MobServ.2012.10>. (Published, Peer-Reviewed)
17. "View-based 3D Object Retrieval by Bipartite Graph Matching", by WEN, Yue; GAO, Yue; HONG, Richang; LUAN, Huanbo; LIU, Qiong; SHEN, Jialie; JI, Rongrong, 01/2012, *Proceedings of the 20th ACM International Conference on Multimedia (MM'12)*, 897 - 900, Nara, Japan: ACM, <http://dx.doi.org/10.1145/2393347.2396341>. (Published, Peer-Reviewed)
18. "Tag-based social image search with visual-text joint hypergraph learning", by GAO, Yue; WANG, Meng; LUAN, Huan-Bo; SHEN, Jialie; YAN, Shuicheng; TAO, Dacheng, 12/2011, *Proceedings of the 19th ACM International Conference on Multimedia (MM'11)*, 1517 - 1520, Arizona, USA: ACM, <http://dx.doi.org/10.1145/2072298.2072054>. (Published, Peer-Reviewed)
19. "Probabilistic indexing of media sequences", by SHEN, Jialie; WANG, Meng; YAN, Shuicheng; QI, TIAN, 08/2011, *ICIMCS '11: Proceedings of the Third International Conference on Internet Multimedia Computing and Service*, 108 - 111, Chengdu, China: ACM, <http://dx.doi.org/10.1145/2043674.2043705>. (Published, Peer-Reviewed)
20. "The effects of heterogeneous information combination on large scale social image search.", by CHENG, Zhiyong; Ren, Jing; SHEN, Jialie; Miao, Haiyan, 01/2011, *ICIMCS '11: Proceedings of the Third International Conference on Internet Multimedia Computing and Service*, 39 - 42, Beijing, China: ACM, <http://dx.doi.org/10.1145/2043674.2043686>. (Published, Peer-Reviewed)
21. "The E-Recall Environment for Cloud based Mobile Rich Media Data Management", by SHEN, Jialie; YAN, Shuicheng; Hua, Xian-Sheng, 10/2010, *MCMC '10: Proceedings of the 2010 ACM*

Workshop on Mobile Cloud Media Computing, October 25, 2010, Firenze, Italy, Firenze, Italy: ACM, <http://dx.doi.org/10.1145/1877953.1877963>. (Published, Peer-Reviewed)

22. "Intelligent Query: Open Another Door to 3D Object Retrieval", by GAO, Yue; WANG, Meng; SHEN, Jialie; DAI, Qionghai; ZHANG, Naiyao, 10/2010, *18th ACM International Conference on Multimedia (ACM MM'10), (Discussion room paper)*, ACM, <http://dx.doi.org/10.1145/1873951.1874333>. (Published, Peer-Reviewed)
23. "Large Scale Rich Media Information Search: Challenges and Opportunities", by CHENG, Zhiyong; SHEN, Jialie, 09/2010, *Advances in Multimedia Information Processing - PCM 2010: 11th Pacific Rim Conference on Multimedia, Shanghai, China, September 2010, Proceedings, Part II*, 13 - 21, Shanghai, China: Springer Verlag, http://dx.doi.org/10.1007/978-3-642-15696-0_2. (Published, Peer-Reviewed)
24. "Effective Music Tagging through Advanced Statistical Modeling", by SHEN, Jialie; WANG, Meng; YAN, Shuicheng; PANG, Hwee Hwa; HUA, Xian-Sheng, 07/2010, *33rd Annual International ACM SIGIR Conference on Research & Development on Information Retrieval (ACM SIGIR'10)*, Geneva, Switzerland: ACM, <http://www.sigir2010.org/doku.php?id=program:sessions>. (Published, Peer-Reviewed)
25. "Weakly-Supervised Hashing in Kernel Space", by Mu, Yadong; SHEN, Jialie; YAN, Shuicheng, 06/2010, *IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR 2010)*, 3344 - 3351, San Francisco, CA: IEEE, <http://dx.doi.org/10.1109/CVPR.2010.5540024>. (Published, Peer-Reviewed)
26. "Graphics and Human Computer Interfaces; Dual Phase Learning for Large Scale Video Gait Recognition", by SHEN, Jialie; PANG, Hwee Hwa; Tao, Dacheng; LI, Xuelong, 01/2010, *16th International Conference on MultiMedia Modeling (MMM) (Invited Paper)*, 500 - 510, Berlin: Springer Verlag, http://dx.doi.org/10.1007/978-3-642-11301-7_50. (Published, Peer-Reviewed)
27. "Robust Semantic Concept Detection in Large Video Collections", by SHEN, Jialie; Tao, Dacheng; LI, Xuelong, 10/2009, *SMC 2009: IEEE International Conference on Systems, Man, and Cybernetics, 11-14 October, San Antonio: Proceedings*, 635 - 638, San Antonio, TX: IEEE, <http://dx.doi.org/10.1109/ICSMC.2009.5346651>. (Published, Peer-Reviewed)
28. "Comprehensive Query-Dependent Fusion Using Regression-on-Folksonomies: A Case Study of Multimodal Music Search", by ZHANG, Bingjun; Xiang, Qiaoliang; LU, Huanhuan; SHEN, Jialie; WANG, Ye, 10/2009, *17th ACM International Conference on Multimedia (ACM MM'09)*, 213 - 222, New York: ACM, <http://dx.doi.org/10.1145/1631272.1631303>. (Published, Peer-Reviewed)
29. "Compositemap: A Novel Framework for Music Similarity Measure", by ZHANG, Bingjun; SHEN, Jialie; XIANG, Qiaoliang; WANG, Ye, 07/2009, *32nd Annual International ACM SIGIR Conference on Research & Development on Information Retrieval (ACM SIGIR'09)*, New York: ACM, <http://dx.doi.org/10.1145/1571941.1572011>. (Published, Peer-Reviewed)
30. "Setting Discrete Bid Levels in Adaptive Auctions", by ZHANG, Jilian; LAU, Hoong Chuin; SHEN, Jialie, 01/2009, *11th International Conference on Electronic Commerce (ICEC'09)*, 195 - 204, New York: ACM, <http://dx.doi.org/10.1145/1593254.1593284>. (Published, Peer-Reviewed)
31. "Compositemap: A Novel Music Similarity Measure for Personalized Multimodal Music Search", by ZHANG, Bingjun; XIANG, Qiaoliang; WANG, Ye; SHEN, Jialie, 01/2009, *17th ACM International Conference on Multimedia (ACM Multimedia), System Demo. Track*, 973 - 974, New York: ACM, <http://dx.doi.org/10.1145/1631272.1631474>. (Published, Peer-Reviewed)
32. "Distribution-Based Similarity Measures for Multi-Dimensional Point Set Retrieval Applications", by Shao, Jie; Huang, Zi; SHEN, Heng Tao; SHEN, Jialie; Zhou, Xiaofang, 10/2008, *MM '08: Proceedings of the ACM International Conference on Multimedia, Vancouver, BC, Canada. October 27-31, 2008*, 429 - 438, Vancouver, BC, Canada: ACM, <http://dx.doi.org/10.1145/1459359.1459417>. (Published, Peer-Reviewed)

33. "Bayesian Tensor Analysis", by Tao, Dacheng; SUN, Jimeng; SHEN, Jialie; Wu, Xindong; LI, Xuelong; Maybank, Stephen J.; Faloutsos, Christos, 05/2008, *IEEE International Joint Conference on Neural Networks (IJCNN2008)*, 1402 - 1409, IEEE, <http://dx.doi.org/10.1109/IJCNN.2008.4633981>. (Published, Peer-Reviewed)
34. "How to Influence My Customers? The Impact of Electronic Market Design", by Hu, Nan; LIU, Ling; CHEN, Bing; SHEN, Jialie, 04/2008, *Proceedings of the 17th International Conference on World Wide Web, April 21 - 25, 2008, Beijing, China*, 1117 - 1118, Beijing, China: ACM, <http://dx.doi.org/10.1145/1367497.1367684>. (Published, Peer-Reviewed)
35. "Effective Video Event Detection Via Subspace Projection", by SHEN, Jialie; Tao, Dacheng; LI, Xuelong, 01/2008, *IEEE 2008 International Workshop on Multimedia Signal Processing (MMSP-2008), Invited Paper*, IEEE, <http://dx.doi.org/10.1109/MMSP.2008.4665043>. (Published, Peer-Reviewed)
36. "Towards Efficient and Flexible Knn Query Processing in Real-Life Road Networks", by LU, YANG; Cui, Bin; ZHAO, Jiakui; LU, Hua; SHEN, Jialie, 01/2008, *Ninth International Conference On Web-Age Information Management (WAIM'08)*, 230 - 237, IEEE, <http://dx.doi.org/10.1109/WAIM.2008.10>. (Published, Peer-Reviewed)
37. "QueST: Querying Music Databases by Acoustic and Textual Features", by Cui, Bin; LIU, Ling; Pu, Calton; SHEN, Jialie; TAN, Kian-Lee, 09/2007, *Proceedings of the 15th ACM International Conference on Multimedia, September 24-29, 2007, Augsburg, Allemagne*, 1055 - 1064, Augsburg, Allemagne: ACM, <http://dx.doi.org/10.1145/1291233.1291465>. (Published, Peer-Reviewed)
38. "Probabilistic Tensor Analysis with Akaike and Bayesian Information Criteria", by TAO, Dacheng; SUN, Jimeng; SHEN, Jialie; Wu, Xindong; LI, Xuelong; Maybank, Stephen J.; Faloutsos, Christos, 09/2007, *Neural Information Processing: 14th International Conference, ICONIP 2007, Kitakyushu, Japan, 13-16 November: Revised Selected Papers, Part I*, 791 - 801, Kitakyushu, Japan: Springer Verlag, http://dx.doi.org/10.1007/978-3-540-69158-7_82. (Published, Peer-Reviewed)
39. "Efficient Benchmarking of Content-based Image Retrieval via Resampling", by SHEN, Jialie; Shepherd, John, 10/2006, *MULTIMEDIA '06: Proceedings of the 14th ACM International Conference on Multimedia, October 23-27, Santa Barbara, CA*, 569 - 578, Santa Barbara, CA: ACM, <http://dx.doi.org/10.1145/1180639.1180758>. (Published, Peer-Reviewed)
40. "Exploring Composite Acoustic Features for Efficient Music Similarity Query", by Cui, Bin; SHEN, Jialie; CONG, Gao; SHEN, Heng Tao; YU, Cui, 10/2006, *MULTIMEDIA '06: Proceedings of the 14th ACM International Conference on Multimedia, October 23-27, Santa Barbara, CA*, 412 - 420, Santa Barbara, CA: ACM, <http://dx.doi.org/10.1145/1180639.1180725>. (Published, Peer-Reviewed)
41. "Towards Efficient Automated Singer Identification in Large Music Databases", by SHEN, Jialie; Bin, Cui; John, Shepherd; Kian-Lee, TAN, 01/2006, *SIGIR '06: Proceedings of the 29th annual international ACM SIGIR conference on research and development in information retrieval*, 59 - 66, ACM, <http://dx.doi.org/10.1145/1148170.1148184>. (Published, Peer-Reviewed)
42. "InMAF: Indexing Music Databases via Multiple Acoustic Features", by SHEN, Jialie; Shepherd, John; Ngu, AHH, 01/2006, *SIGMOD '06 Proceedings of the 2006 ACM SIGMOD international conference on management of data*, 778 - 780, ACM, <http://dx.doi.org/10.1145/1142473.1142587>. (Published, Peer-Reviewed)
43. "HSI: A Novel Framework for Efficient Automated Singer Identification in Large Music Databases", by SHEN, Jialie; Shepherd, John; Cui, Bin; TAN, Kian-Lee, 01/2006, *IEEE International Conference on Data Engineering*, Atlanta, Georgia: IEEE, <http://doi.ieeecomputersociety.org/10.1109/ICDE.2006.79>. (Published, Peer-Reviewed)

44. "An Agent-Based Approach for Cooperative Data Management", by MIAO, Chunyu; SHI, Meilin; SHEN, Jialie, 01/2006, *Frontiers of WWW Research and Development - APWeb 2006: 8th Asia Pacific Web Conference (APWEB'06)*, 133 - 144, Harbin, China: Springer Verlag, http://dx.doi.org/10.1007/11610113_13. (Published, Peer-Reviewed)
45. "On Efficient Music Genre Classification", by SHEN, Jialie; John, Shepherd; Ahh, Ngu, 01/2005, *Database Systems for Advanced Applications: 10th International Conference, DASFAA 2005, Beijing, China, April 17-20: Proceedings*, 253 - 264, Beijing, China: Springer Verlag, http://dx.doi.org/10.1007/11408079_24. (Published, Peer-Reviewed)
46. "Exploring Bit-Difference for Approximate KNN Search in High-dimensional Databases", by CUI, Bin; SHEN, Heng Tao; SHEN, Jialie; TAN, Kian-Lee, 01/2005, *Proceedings of the 16th Australasian Database Conference (ADC'05)*, 165 - 174, <http://dl.acm.org/citation.cfm?id=1082240>. (Published, Peer-Reviewed)
47. "Semantic-Sensitive Classification for Large Image Library", by SHEN, Jialie; Shepherd, John; Ngu, AHH, 01/2005, *MMM 2005: Proceedings of the 11th International Multimedia Modelling Conference, 12-14 January, Melbourne, Australia (Poster Track)*, 340 - 345, Melbourne, Australia: IEEE, <http://dx.doi.org/10.1109/MMMC.2005.66>. (Published, Peer-Reviewed)
48. "Integrating Heterogeneous Features for Efficient Content-based Music Retrieval", by SHEN, Jialie; John, Shepherd; Ahh, Ngu, 01/2004, *CIKM '04 Proceedings of the ACM 13th Conference on Information and Knowledge Management*, 154 - 155, ACM, <http://dx.doi.org/10.1145/1031171.1031200>. (Published, Peer-Reviewed)
49. "Improving Query Effectiveness for Large Image Databases with Multiple Visual Feature Combination", by SHEN, Jialie; Shepherd, John; Ngu, AHH; Huynh, Du Q., 01/2004, *9th International Conference on Database Systems for Advanced Applications (DASFAA '04)*, Springer Verlag, <http://www.springerlink.com/content/te12xgmkj9bttq4r/>. (Published, Peer-Reviewed)
50. "CMVF: A Novel Dimension Reduction Scheme for Efficient Indexing In A Large Image Database", by SHEN, Jialie; Ngu, AHH; Shepherd, John; Huynh, Du Q., 01/2003, *SIGMOD '03 Proceedings of the 2003 ACM SIGMOD international conference on Management of data*, 657 - 657, ACM, <http://dx.doi.org/10.1145/872757.872842>. (Published, Peer-Reviewed)

Conference Paper

1. "Multimedia Tagging: Past, Present and Future", by SHEN, Jialie; WANG, Meng; YAN, Shuicheng; HUA, Xian-Sheng, 11/2011, 19th ACM International Conference on Multimedia (ACM MM'11), (4 hour Conference Tutorial), Arizona, USA, <http://www.acmmm11.org/content-multimedia-tagging.html>. (Published, Peer-Reviewed)
2. "Cast2Face: Character Identification in Movie with Actor-Character Correspondence", by Xu, Mengdi; Yuan, Xiao-Tong; SHEN, Jialie; YAN, Shuicheng, 10/2010, 18th ACM International Conference on Multimedia (ACM MM'10), (Short paper track), Firenze, Italy. (Published, Peer-Reviewed)

Authored Book

1. "Intelligent Music Information Systems: Tools and Methodologies", by SHEN, Jialie; Shepherd, John; Cui, Bin; LIU, Ling, 08/2007, Hersey, PA: Information Science Reference, <http://worldcat.org/isbn/9781599046631>. (Published)

Working Paper

1. "The Effects of Multiple Query Evidences on Social Image Retrieval", by CHENG, Zhiyong; SHEN, Jialie; MIAO, Haiyan, 2015. (Accepted)

Chapter in Book

1. "Text Mining in Multimedia", by ZHA, Zheng-Jun; WANG, Meng; SHEN, Jialie; CHUA, Tat-Seng, 01/2012, In Aggarwal, Charu C.; Zhai, Cheng-Xiang, *Mining Text Data*, 361 - 384, New York: Springer Verlag, http://dx.doi.org/10.1007/978-1-4614-3223-4_11. (Published, Peer-Reviewed)
2. "Towards Semantically Meaningful Feature Spaces for Efficient Indexing in Large Image Databases", by Ngu, Anne H. H.; SHEN, Jialie; Shepherd, John, 01/2005, In Uma Srinivasan; Surya Nepal, *Managing Multimedia Semantics*, 1 - 29, Hershey, PA: IRM Press, <http://worldcat.org/isbn/9781591405436>. (Published)

Professional Activities

1. Co-Organizer and Program Chair, IEEE ICDM Workshop on Social Media Retrieval and Analysis (SoMeRA), Atlantic City, New Jersey, USA, 2015
2. TPC member, The 38th Annual ACM SIGIR Conference on Research and Development in Information Retrieval (ACM SIGIR) (Full & Poster paper track), 2015
3. TPC member, The 23rd ACM International Conference on Multimedia (ACM MM) , 2015
4. TPC member, 37th European Conference on Information Retrieval (ECIR), 2015
5. TPC member, The 24th ACM International Conference on Information and Knowledge Management (CIKM 2015), 2015
6. TPC member, The Annual ACM International Conference on Multimedia Retrieval (ICMR), 2015
7. Co-Organizer and Program Chair, ACM SIGIR'14 Workshop on Social Media Retrieval and Analysis (SoMeRA), Gold Coast, Australia., 2014
8. Chair of Student Travel Award Committee, The 5th Annual ACM SIGMM Conference on Multimedia Systems (MMSys 2014), 2014
9. TPC member, The 22nd ACM International Conference on Multimedia (ACM MM) (Full Paper Track, Area 1: Multi-modal Analysis and Description & Area 2: Social Media and Presence), 2014
10. TPC member, The 37th Annual ACM SIGIR Conference on Research and Development in Information Retrieval (ACM SIGIR) (Full paper and Poster paper track), 2014
11. TPC member, The 20th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (ACM SIGKDD) (Research track), 2014
12. TPC member, The 30th International Conference on Data Engineering (ICDE) (System Demo Track), 2014
13. TPC member, The 7th International ACM Conference on Web Search and Data Mining (WSDM'2014), 2014
14. TPC member and Co-Chair of PhD Student Showcase, ACM International Conference on Multimedia Retrieval (ACM ICMR), Glasgow, UK., 2014

15. PC member, Session Chair, Co-Chair of Special Session (Social Geo-Media Analytics and Retrieval), Member of Organizing Committee (Asian Liaison), The 19th International Conference on Multimedia Modeling (MMM), 2014
16. TPC member, Area Chair and Special Session Co-Chair (Geo-Social Media Mining, Analysis, Recommendation and Retrieval), The 2014 IEEE International Conference on Multimedia and Expo (ICME'14), 2014
17. Co-Chair of Publicity, ACM International Conference on Internet Multimedia Computing and Service (ACM ICIMCS), 2014
18. Co-Organizer and Program Chair, ICME'14 Workshop on the Visualization of Heterogeneous Multimedia Content, 2014
19. TPC member, The 36th European Conference on Information Retrieval (ECIR), 2014
20. Area Chair (Multimedia Interface, Interaction and Human-Factors) and Session Chair (Social Media Analysis & Applications), The 2013 IEEE International Conference on Multimedia and Expo (ICME 2013), 2013
21. Member of The Best Papers Judging Committee, The 2013 IEEE International Conference on Multimedia and Expo (ICME 2013), 2013
22. TPC member, Annual International ACM SIGIR Conference on Research and Development in Information Retrieval (ACM SIGIR) (Poster paper track), 2013
23. TPC member, Session Chair, Member of Organizing Committee, The 18th International Conference on Multimedia Modeling (MMM), 2013
24. TPC member (Primary Reviewer), The 2013 Conference on Empirical Methods in Natural Language Processing (EMNLP), 2013
25. TPC member, ACM SIGKDD Conference on Knowledge Discovery and Data Mining (ACM SIGKDD), 2013
26. Co-Panel Chair, IEEE International Conference on Multimedia & Expo (ICME 2012), Melbourne, Australia., 2012
27. Member of Organizing Committee, The 14th Annual International Conference on Electronic Commerce (ICEC), 2012
28. Local Arrangement Co-chair, Pacific-Rim Conference on Multimedia (PCM 2012), Singapore, 2012
29. Co-Chair, Special Session on "Web-Scale Media Search and Management" in the 3rd International Conference on Internet Multimedia Computing and Service (ACM ICIMCS'11), Chengdu, China, 2011
30. Co-Chair, Special Session on "Large Scale Rich Media Data Management" in the 17th International Conference on MultiMedia Modeling (MMM'11), Taipei, Taiwan, 2011
31. Publicity Chair, The 2009 Infoscience Forum, Leipzig, Germany, 2009
32. TPC member, The 29th International Conference on Data Engineering (ICDE), 2013
33. TPC Member, 6th International ACM Conference on Web Search and Data Mining (WSDM'2013), 2013
34. TPC Member, The 22nd ACM International Conference on Information and Knowledge Management (CIKM 2013), 2013

35. TPC member, ACM International Conference on Multimedia (ACM MM) , 2013
36. TPC member, The 15th Asia-Pacific Web Conference (APWeb), 2013
37. TPC member, 28th International Conference on Data Engineering (ICDE), 2012 - 2013
38. TPC member, ACM SIGKDD Conference on Knowledge Discovery and Data Mining (ACM SIGKDD), 2012
39. TPC member, Annual International ACM SIGIR Conference on Research and Development in Information Retrieval (ACM SIGIR) (Poster paper track), 2012
40. TPC member, IEEE International Conference on Data Engineering (ICDM), 2012 - 2013
41. TPC member, ACM International Conference on Multimedia (ACM MM) (both full and short paper tracks), 2009 - 2012
42. TPC member, Annual International ACM SIGIR Conference on Research and Development in Information Retrieval (ACM SIGIR) (both full and poster paper tracks), 2009 - 2011
43. TPC member, International Symposium on String Processing and Information Retrieval (SPIRE), 2011 - 2012
44. TPC member, The 8th Asian Information Retrieval Symposium (AIRS) , 2012
45. TPC member, The 33rd European Conference on Information Retrieval (ECIR), 2012
46. TPC member, International Conference on Database Systems for Advanced Applications (DASFAA), 2012
47. TPC member, IEEE International Conference on Multimedia and Expo (ICME) (Both research and industry tracks), 2011
48. TPC member, IEEE International Conference on Image Processing (ICIP'11), 2011
49. TPC member, International Conference on Cooperative Information Systems (CoopIS), 2008 - 2012
50. TPC Member, The 22nd IEEE International Conference on Tools with Artificial Intelligence (ICTAI), 2012
51. TPC member, International Conference on Image Analysis and Recognition (ICIAR), 2008 - 2012
52. TPC member, The 11th ACM International Conference on Multimedia Information Retrieval (ACM MIR), 2010
53. TPC member, ACM SIGKDD Conference on Knowledge Discovery and Data Mining (ACM SIGKDD), 2010
54. TPC member, IEEE International Conference on Data Engineering (ICDM), 2008 - 2010
55. TPC member, IEEE International Conference on Business Intelligence and Financial Engineering (IEEE BIFE), 2009 - 2010
56. TPC member, Asia-Pacific Web Conference (APWEB), 2006 - 2010
57. TPC member, Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD), 2008 - 2013

58. TPC member, The Australasian Database Conference (ADC), 2010 - 2012
59. TPC member, The 25th International Conference on Data Engineering (ICDE), 2009
60. TPC member, IEEE International Conference on Multimedia and Expo (ICME), 2009
61. TPC member, The 31st European Conference on Information Retrieval (ECIR), 2009
62. TPC member, IADIS The European Conference on Data Mining (ECDM), 2008 - 2009
63. TPC member, International Conference on Advanced Data Mining and Applications (ADMA), 2009 - 2012
64. TPC member, The 2nd International Symposium on Financial Information Processing (FIP), 2009
65. TPC member, The Fifth International Conference on Image and Graphics (ICIG), 2009
66. TPC member, International Conference on Database Systems for Advanced Applications (DASFAA), 2007 - 2009
67. TPC member, The 15th IEEE International Conference on Image Processing (ICIP), 2008
68. TPC member, ACM 15th International Conference on Multimedia (ACM Multimedia'07) (Short paper track), 2007
69. Reviewer for ACM Transactions on Information Systems (ACM TOIS), ACM Transactions on Multimedia Computing Communications and Applications (ACM TOMCCAP), ACM Transactions on Knowledge Discovery from Data (ACM TKDD), ACM Transactions on Intelligent Systems and Technology (ACM TIST), ACM Transactions on Internet Technology (ACM TOIT), IEEE Transactions on Image Processing (IEEE T-IP), IEEE Transactions on Multimedia (IEEE T-MM), IEEE Transactions on Knowledge and Data Engineering (IEEE T-KDE), IEEE Transactions on Circuits and Systems for Video Technology (IEEE T-CSVT), IEEE Transactions on Parallel and Distributed Systems (IEEE T-PDS), IEEE Transactions on Cybernetics, IEEE Transactions on Systems, Man, and Cybernetics -- Part B: Cybernetics (IEEE T-SMC-B), IEEE Transactions on Systems, Man, and Cybernetics -- Part C: Applications and Reviews (IEEE T-SMC-C), IEEE Transactions on Mobile Computing (IEEE TMC), IEEE Multimedia Magazine, IEEE Journal of Biomedical and Health Informatics, IEEE Transactions on Information Technology in BioMedicine (IEEE TITB), ACM Multimedia Systems Journal (Springer), Electronic Commerce Research and Applications (Springer), Multimedia Tool and Applications : An International Journal (MTA), Knowledge and Information Systems (KAIS), International Journal on Digital Library, Pattern Recognition (PR), Information Processing and Management (IPM), Decision Support Systems (DSS), Information Sciences - Elsevier (IS), Journal of Electronic Imaging - SPIE (JEI), Neurocomputing, Signal Processing, World Wide Web: Internet and Web Information Systems (WWWJ), Acta Photonica Sinica., 2007 - Now

Other Services

1. PhD thesis committee member, Xiangmin (Emily) Zhou, "Similarity search in large video database", The University of Queensland, 2008 [First placement: Research Scientist at CSIRO Canberra Lab, Australia]

Invited Talks

1. "Just-for-Me: An Adaptive Personalization System for Location-Aware Social Music Recommendation", Dept. of Computing and Information Systems, The University of Melbourne., 14 July 2014

2. "Intelligent Audio Information Retrieval", Lab for Media Search, School of Computing, NUS, Singapore, 11 September 2013
3. "Video and Image Analytics for Business, Consumer and Social Insights", Workshop on Analytics for Business, Consumer and Social Insights (BCSI), Singapore Management University Summer Institute, 2013, Singapore., August 2013
4. "Approaches to Image and Video Data Mining for Business-Relevant Applications", Workshop on Analytics for Business, Consumer and Social Insights (BCSI), ICEC 2012, Singapore., August 2012
5. "From Data to Wisdom: Towards Next Generation Web Media Search", Dept. of Systems Engineering & Engineering Management, The Chinese University of Hong Kong (CUHK), Hong Kong, China, July 2011
6. Panellist, "Towards Web-Scale Media Content Analysis and Retrieval - What has University Research contributed to Commercial Systems and Social Network Services", The Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC'10), Singapore, December 2010
7. "Why Music Information Retrieval is Important?", Sound and Music Computing (SMC) Lab, School of Computing, NUS, Singapore, October 2008
8. "Advanced Multimedia Information Retrieval Techniques", Xian Jiaotong University, XI'AN, China, January 2008
9. "A Resampling based System Evaluation Method for CBIR", The University of Queensland, Australia (Supported by Australia Research Council (ARC) Research Network in Enterprise Information Infrastructure), August 2007
10. "HSI: A Novel Singer Identification Method", Nanyang Technology University, Singapore., November 2006
11. "HSI: A Novel Singer Identification Method", College of Computing, The Georgia Institute of Technology, USA., October 2006
12. "HSI: A Novel Singer Identification Method", Information Retrieval Research Group, University of Glasgow, UK., September 2006
13. "Advanced Indexing Methods for Multimedia Databases", Griffith University, Australia., April 2006
14. Just-for-Me: An Adaptive Personalization System for Location-Aware Social Music Recommendation, Department of Computing and Information Systems, The University of Melbourne, 13 July 2014

Memberships in Professional Organizations

1. Member of ACM, ACM SIGIR, ACM SIGMOD and IEEE

Thesis Chairman (Ph. D)

1. Jing REN, "Multimedia Information Diffusion and Social Recommendation", Co-Supervisor: Professor Robert J. KAUFFMAN (SIS, SMU), 2012
2. Zhiyong CHENG, "Context-Aware Multimedia Recommendation", Co-Supervisor: Professor Shuicheng YAN (ECE, NUS), 2011

Master Student Supervision

1. On the Master thesis committee of Mr. Xun Zhao, School of Information Systems, Singapore Management University., 2011 - 2013

Courses Taught - Ph. D

1. IS 751 Advanced Topics in Database and Information Retrieval , 2007 - 2009

Courses Taught - Undergraduate

1. IS102, Computer as an Analysis Tool, 2012
2. IS200 IS Software Foundations, 2008 - 2010
3. IS417 Data Warehousing and Business Analytics, 2007 - 2010
4. IS480, IS Application Project, 2007