

Xian-Sheng Hua

(华先胜)

PERSONAL INFORMATION

Date of Birth Oct 6, 1973
Place of Birth Hubei Province, P.R.China
Phone +86 10 59173200 (office)
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URL <http://research.microsoft.com/~xshua>

EDUCATION

09/1996 ~ 07/2001 **Degree:** Ph.D.
Specialty: Applied Mathematics
University: School of Mathematical Sciences, Peking University
Dissertation: Local Multiple Watermarks for Still Images

09/1991 ~ 07/1996 **Degree:** Bachelor of Science
Specialty: Information Science
University: School of Mathematical Sciences, Peking University

RESEARCH EXPERIENCES

07/2001 ~ present **Microsoft Research Asia**

Position: Lead Researcher in Media Computing Group
Oversee a four-member team working on video and image search (including indexing, ranking, presentation, and management), multimedia advertising, video and image content analysis, multimedia mining, and mobile multimedia computing.

Research Area: Multimedia content analysis and applications, machine learning, pattern recognition. Topics include: video/image search, video advertising, image advertising, video management, mobile multimedia, video authoring/sharing, multimedia content analysis, media user interface, media visualization, video representation, social media mining, video summarization, video quality assessment, video signature, sports video analysis, video commercial detection, and videotext detection.

Mentor for Interns: Supervised more than 40 interns to accomplish research projects, papers, and dissertations. Students include those from both local leading universities such as Peking University, Tsinghua University, and University of Science and Technology of China, as well as international ones such as University of California, Santa Barbara, and Queen Mary, University of London.

More details (bio, publications, demonstrations, media reports, etc.): Please visit my homepage for more details about my research experiences at Microsoft Research Asia.

RESEARCH EXPERIENCES (continued)

11/2000 ~ 07/2001	Microsoft Research Asia Position: Visiting Student at Media Computing Group Research Area: Videotext Detection and Performance Evaluation
09/1996 ~ 07/2001	School of Mathematical Sciences of Peking University Position: Ph.D. Candidate Research Area: Image Data Hiding, Image Watermarking

ADDITIONAL PROFESSIONAL ACTIVITIES

Associate Editor of ACM Transactions on Intelligent Systems and Technology (since 2009)
Associate Editor of IEEE Transactions on Multimedia (since 2007)
Editorial Board Member of Multimedia Tools and Applications (since 2007)
Editorial Board Member of Advances in Multimedia (since 2009)
Editor of Scholarpedia – Multimedia Category (since 2009)
Adjunct Professor of University of Science and Technology of China (since 2007)
Vice Program Chair

VCIP Visual Communications and Image Processing, 2005

Workshop Chair

MCMC 2010 ACM Multimedia Workshop – Mobile Cloud Media Computing, 2010
VCIDS 2010 ICME Workshop – Visual Content Identification and Search, 2010
IMM 2009 ICDM Workshop – Internet Multimedia Mining (with Dataset Support), 2009
IMSM 2009 ICME Workshop – Internet Multimedia Search and Mining, Mexico, 2009

Demonstration Chair

ACMMM ACM Multimedia, 2009
VCIP Visual Communications and Image Processing, 2005

Tutorial Chair

ACMMM ACM Multimedia, 2010

Senior Technical Program Committee Member

ACMMM ACM Multimedia, 2010
KDD ACCM SIGKDD, 2010

Technical Program Committee Member Of (selected):

WWW World Wide Web Conference (2010)
ACMMM ACM Multimedia (2010, 2009, 2008, 2007, 2006, 2005)
SIGIR ACM SIGIR (2010, 2009)
CVPR IEEE Intl. Conf. on Computer Vision and Pattern Recognition (2010, 2009)
CIVR ACM Intl Conf on Image and Video Retrieval (2010, 2009, 2008, 2007)
ICME IEEE Intl Conf on Multimedia and Expo (2010, 2009, 2008, 2007, 2006, 2004)
ICIP IEEE Intl Conf on Image Processing (2009, 2008, 2007, 2006, 2005, 2004)
MMSP Workshop on Multimedia Signal Processing (2008)
MMM Multimedia Modeling Conference, Kyoto (2010, 2009, 2008, 2007, 2006)
PCM Pacific-Rim Conference on Multimedia (2010, 2009, 2007, 2005, 2004)
SLAM Workshop on Semantic Learning and Applications in Multimedia (2006~2009)
AMR Workshop on Adaptive Multimedia Retrieval (2009, 2008, 2007)
ACML Asian Conference on Machine Learning (2009)
MLD Workshop on Learning from Multi-Label Data (2010/2009)
IV CVPR Workshop on Internet Vision (2010/2009)

Invited Talks (selected)

Internet Multimedia: Challenges and Opportunities, keynote on ICCV 2009 Workshop on Emergent Issues in Large Amounts of Visual Data
Towards Content-Aware Internet Multimedia Search, invited Talk at NUS and NTU, Singapore, 2009
Multimedia Advertising, invited talk on CVPR 2008 Workshop on Internet Vision

Guest Co-Editor (selected)

Intelligent Multimedia Systems and Technology, special issue on ACM Transactions on IST, 2010.
Computer Vision and Image Understanding (Elsevier) special issue on Video Analysis

ADDITIONAL PROFESSIONAL ACTIVITIES (continued)

Special Session Organizer

MMSP 2008	Search and Beyond Search: Online Video Applications
ICME 2006	Interactive Multimedia Content Analysis and Application

Member Of

ACM	Senior Member of the Association for Computing Machinery
IEEE	Member of IEEE

SHIPPED PRODUCTS

2010	Microsoft Bing Image Search Shipped Feature: Image Search by Color Sketch
2007	Microsoft Live Search Video Shipped Feature: Smart Static/Motion Thumbnail, Quality Assessment
2007	Microsoft Windows Vista Shipped Features: TV Thumbnail, Video Metadata, and AutoMovie
2006	Microsoft MSN Video Shipped Feature: Video Thumbnail
2005	Microsoft Windows XP Media Center Edition Shipped Feature: TV/Video Smart Thumbnail (Priority 0 feature)
2003	Microsoft Windows Movie Maker 2.0 Shipped Feature: AutoMovie (5-Star breakthrough feature)

AWARDS AND HONORS

2010	Best Paper Award, Intl Conference on MultiMedia Modeling 2010.
2009	Best Student Paper Award, ACM CIKM 2009.
2008	Best Poster Award, IEEE MMSP 2008.
2008	Business Elites of People under 40 to Watch by Global Entrepreneur.
2008	MIT TR35 Young Innovator Award 2008 (for enhancing video search)
2007	Best Paper Award, ACM Multimedia 2007 (the most prestigious conference in multimedia research community)
2007	Best Demonstration Award, ACM Multimedia 2007
2007	Was selected into Microsoft HiPo (High Potential) Program Tier 2
2007	Microsoft Research Asia "Best Research Team of the Year" (as team lead)
2007	Microsoft Ship-It Award (Live Search Video)
2005	Microsoft Ship-It Award (Windows XP Media Center Edition)
2003	Microsoft Ship-It Award (Windows MovieMaker 2.0)
2000	Wusi Scholarship, Outstanding Student Scholarship (Peking University)
1995	Jiuzhang Arithmetic Scholarship (Peking University)
1994	Japanese Okamatsu Scholarship (Peking University)
1993	Excellent Student Scholarship (Peking University)

PATENTS

More than 60 patents or pending applications

- In the area of multimedia content analysis and related applications, including video search, multimedia desktop search, video/image annotation, video/image advertising, video segmentation, video authoring, commercial detection, video/photo capturing, video/photo sharing, video summarization, video representation, video/photo browsing, and mobile multimedia.

PUBLICATIONS

Summary

Total: 188

Edited Books: 2

Book Chapters: 8

Journals: 34

Conference Papers:

ACM Multimedia: 33 = 16 (Full Paper) + 17 (Short Paper) + 8 (Demos)

SIGIR: 6 = 2 (oral) + 4 (poster)

CVPR: 10

WWW: 5 = 2 (oral) + 2 (poster) + 1 (demo)

ICME: 27

ICIP: 6

Others (ICDM, ICSC, MIR, MMM, ISCAS, ICASSP, PAKDD, CIVR, PCM, etc.): 57

* – Interns mentored at Microsoft Research Asia.

Edited Books

1. **Internet Multimedia Search and Mining.** Edited by **Xian-Sheng Hua**, Marcel Worring, Tat-Seng Chua. To be published by Bentham Science.
2. **Online Multimedia Advertising: Techniques and Technologies.** Edited by **Xian-Sheng Hua**, Tao Mei and Alan Hanjalic. To be published by IGI Global.

Book Chapters

3. Tao Mei, Teng Li, **Xian-Sheng Hua**, In-So Kweon. Video Presentation. In *Multimedia Analysis, Processing and Communication*, Edited by Z. Li, J. Kacprzyk, D. Tao, W. Lin, E. Izquierdo, and H. Wang, Springer-Verlag, 2009.
4. **Xian-Sheng Hua**, Hong-Jiang Zhang. Automatic Home Video Editing. Book Chapter, in *Multimedia Content Analysis – Theory and Applications*. Edited by Ajay Divakaran. Springer, 2008.
5. Meng Wang *, **Xian-Sheng Hua**, Jinhui Tang, Guo-Jun Qi. Active Video Annotation: To Minimize Human Effort. Book Chapter. To appear in *Semantic Mining Technologies for Multimedia Databases*, edited by D. Tao, D. Xu, and X. Li. Idea Group Inc. 2008.
6. Jinhui Tang *, **Xian-Sheng Hua** and Meng Wang. Image/Video Semantic Analysis by Semi-Supervised Learning. Book Chapter. To appear in *Semantic Mining Technologies for Multimedia Databases*, edited by D. Tao, D. Xu, and X. Li. Idea Group Inc. 2008.
7. Tao Mei, **Xian-Sheng Hua**. Intelligent Video Content Analysis and Applications. Book Chapter. To appear in *Computational Intelligence and Its Applications*. Edited by Chang Wen Chen. USTC Press. 2008.
8. Meng Wang *, Tao Mei, **Xian-Sheng Hua**. Video Annotation: Supervised, Semi-Supervised, and Active Learning Approaches. Book chapter. To appear in *Computational Intelligence and Its Applications*. Edited by Chang Wen Chen. USTC Press. 2008.
9. **Xian-Sheng Hua**, Yong Rui. Content-Based Multimedia Retrieval. To appear in *Wiley Encyclopedia of Computer Science and Engineering*. Edited by Benjamin Wah. John Wiley & Sons, Inc.
10. **Xian-Sheng Hua**, Meng Wang *. Video Content Structure. To appear in *Encyclopedia of Database Systems*. Edited by Ling Liu, M. Tamer Özsu. Springer-Verlag.

PUBLICATIONS (continued)

Journal Papers

11. Meng Wang, **Xian-Sheng Hua**. Accessible Image Search for Colorblindness. Accepted by ACM Trans. on Intelligent Systems and Technology. 2010.
12. Meng Wang, Yelong Sheng, Bo Liu, **Xian-Sheng Hua**. In-Image Accessibility Indication. Accepted by IEEE Trans. on Multimedia 2010.
13. Bo Liu, Meng Wang, Richang Hong, Zheng-Jun Zha, **Xian-Sheng Hua**. Joint Learning of Labels and Distance Metric. Accepted by IEEE Trans. on System, Man and Cybernetics:Part B.
14. Yuan Liu, Tao Mei, Meng Wang, Xiuqing Wu, **Xian-Sheng Hua**. Typicality-Based Image Search Reranking. Accepted by IEEE Trans. on Circuits and Systems for Video Technology (T-CSVT).
15. Meng Wang, Bo Liu, Jinhui Tang, **Xian-Sheng Hua**. "Metric Learning with Feature Decomposition for Image Categorization," Accepted by Neurocomputing.
16. Tao Mei, Jinlian Guo, **Xian-Sheng Hua**, Falin Liu. AdOn: Toward Contextual Overlay In-Video Advertising. Accepted by ACM/Springer Multimedia Systems (MMSJ), 2010.
17. Tao Mei, **Xian-Sheng Hua**. Contextual Internet Multimedia Advertising," Accepted by Proceedings of the IEEE, Special Issue on Internet Vision (PIEEE), 2010.
18. Lusong Li, Tao Mei, **Xian-Sheng Hua**. GameSense: Game-like In-Image Advertising. Multimedia Tools and Applications (MTA), Oct. 2009.
19. Meng Wang, **Xian-Sheng Hua**, Richang Hong, Jinhui Tang, Guo-Jun Qi, Yan Song. Unified Video Annotation via Multi-Graph Learning. IEEE Transactions on Circuits and Systems for Video Technology, Vol. 19, No. 5, 2009.
20. Yuan Liu, Tao Mei, Xiuqing Wu, **Xian-Sheng Hua**. Multi-Graph-Based Query-Independent Learning for Video Search. IEEE Trans. on Circuits and Systems for Video Technology, 2009.
21. Teng Li, Tao Mei, In-So Kweon, **Xian-Sheng Hua**. Contextual Bag of Words for Visual Categorization. Accepted by IEEE Trans. on Circuits and Systems for Video Technology (T-CSVT).
22. Teng Li, Tao Mei, In-So Kweon, **Xian-Sheng Hua**. Multi-Video Synopsis for Video Representation. Elsevier Signal Processing, 2009.
23. Meng Wang, **Xian-Sheng Hua**, Jinhui Tang and Richang Hong. Beyond Distance Measurement: Constructing Neighborhood Similarity for Video Annotation. IEEE Transactions on Multimedia, Vol.11, No.3, 2009.
24. Tao Mei, **Xian-Sheng Hua**, Shipeng Li. VideoSense: A Contextual In-Video Advertising System. IEEE Trans. on Circuits and Systems for Video Technology, 2009.
25. Jinhui Tang, Guo-Jun Qi, Meng Wang, **Xian-Sheng Hua**. Video Semantic Analysis based on Structure-Sensitive Anisotropic Manifold Ranking. Signal Processing, vol. 89, no. 12, 2009.
26. Guo-Jun Qi *, **Xian-Sheng Hua**, et al. Two-Dimensional Multi-Label Active Learning with an Efficient Online Adaption Model for Image Classification. *IEEE Transactions on Pattern Analysis and Machine Intelligence* (TPAMI), 2008.
27. Jinhui Tang *, **Xian-Sheng Hua**, et al. Correlative Linear Neighborhood Propagation for Video Annotation. IEEE Transactions on Systems, Man and Cybernetics, Part B. 2008

PUBLICATIONS (continued)

28. Zhiwei Gu, Tao Mei, **Xian-Sheng Hua**, Jinhui Tang, Xiuqing Wu. Multi-Layer Multi-Instance Learning for Video Concept Detection. *IEEE Transactions on Multimedia*, Vol.10, No.8, 2008.
29. Jinhui Tang *, Guo-Jun Qi, Yan Song, Xiuqing Wu. Video Annotation Based on Kernel Linear Neighborhood Propagation. *IEEE Transaction on Multimedia* , Vol.10, Issue 4, 2008.
30. Meng Wang *, **Xian-Sheng Hua**, Tao Mei, Jinhui Tang, Guo-Jun Qi, Yan Song, Li-Rong Dai. Interactive Video Annotation by Multi-concept Multi-modality Active Learning. To appear in *International Journal of Semantic Computing*.
31. Guo-Jun Qi *, **Xian-Sheng Hua**, Yong Rui, Hong-Jiang Zhang. A Unifying Multi-Label Temporal Kernel Machine with Its Application to Video Annotation. *ACM Transactions on Multimedia Computing, Communications and Applications* 2008.
32. Tao Mei, Bo Yang *, Shi-Qiang Yang, **Xian-Sheng Hua**. Video Collage: Presenting a Video Sequence Using a Single Image. Accepted by *The Visual Computer*, 2008.
33. Yong Wang *, Tao Mei, Shaogang Gong, **Xian-Sheng Hua**. Combining Global, Regional and Contextual Features for Automatic Image Annotation. Accepted by *Pattern Recognition (PR)*, 2008.
34. Zheng-Jun Zha *, Tao Mei, Jingdong Wang, Zengfu Wang, **Xian-Sheng Hua**. "Graph-based Semi-Supervised Learning with Multiple Labels," *Journal of Visual Communication and Image Representation (JVCI)*, 2009.
35. Meng Wang *, **Xian-Sheng Hua**, Tao Mei, Richang Hong, Guo-Jun Qi, Yan Song and Li-Rong Dai. Semi-Supervised Kernel Density Estimation for Video Annotation. To appear in *Computer Vision and Image Understanding*, Elsevier.
36. Jinhui Tang *, **Xian-Sheng Hua**, Yan Song, Tao Mei, Xiuqing Wu. Optimizing Training Set Construction for Video Semantic Classification. *EURASIP Journal on Advances in Signal Processing*. Vol 2008. Article ID 693731. 10 pages.
37. Tao Mei *, **Xian-Sheng Hua**. Structure and Event Mining in Sports Video with Efficient Mosaic. To appear in *Multimedia Tools and Applications*. 2008.
38. Jinhui Tang *, **Xian-Sheng Hua**, Tao Mei, Guo-Jun Qi, Xiuqing Wu. Video Annotation Based on Temporally Consistent Gaussian Random Field. *Electronics Letters*. Vol. 43, Issue 8, 2007.
39. Tao Mei *, Cai-Zhi Mei *, **Xian-Sheng Hua**, He-Qin Zhou, Shipeng Li. Home Video Visual Quality Assessment with Spatio-Temporal Factors. To appear in *IEEE Trans. on Circuits and Systems for Video Technology*.
40. Tao Mei *, **Xian-Sheng Hua**, He-Qin Zhou, Shipeng Li. Modeling and Mining of Users' Capture Intention for Home Videos. *IEEE Trans. on Multimedia*. Vol 9, Issue 1. Jan 2007.
41. **Xian-Sheng Hua**, Lie Lu, Hong-Jiang Zhang. Photo2Video - A System for Automatically Converting Photographic Series into Video. *IEEE Trans. on Circuits and Systems for Video Technology*, Vol 16, Issue 7, pp 803-819. July 2006.
42. Yufei Ma, **Xian-Sheng Hua**, Lie Lu, Hong-Jiang Zhang. A Generic Framework of User Attention Model and Its Application in Video Summarization. *IEEE Transactions on Multimedia Journal*. Vol 17, No. 5, October 2005.
43. **Xian-Sheng Hua**, Lie Lu, Hong-Jiang Zhang. Optimization-Based Automated Home Video Editing System. *IEEE Transactions on Circuits and Systems for Video Technology*, May 2004, Vol 14, No. 5, pp 572-583. 2004.
44. **Xian-Sheng Hua**, Liu Wenyin, Hong-Jiang Zhang. An Automatic Performance Evaluation Protocol for Video Text Detection Algorithms. *IEEE Transactions on Circuits and Systems for Video Technology*, April 2004, Vol 14, No. 4, pp 498-507. 2004.

PUBLICATIONS (continued)

Conference Papers

2010

45. Hao Xu, Jingdong Wang, **Xian-Sheng Hua**, and Shipeng Li. Image Search by Concept Map. SIGIR 2010 (regular paper). To appear.
46. Jialie Shen, Meng Wang; Yan Shuicheng; PANG Hwee Hwa; **Xian-Sheng Hua**. Effective Music Tagging through Advanced Statistical Modeling. SIGIR 2010 (regular paper). To appear.
47. You Jia, Jingdong Wang, Gang Zeng, Hongbin Zha, and **Xian-Sheng Hua**. Optimizing Kd-trees for Scalable Visual Descriptor Indexing. CVPR 2010. To appear.
48. Hao Xu, Jingdong Wang, **Xian-Sheng Hua**, and Shipeng Li. Interactive Image Search by 2D Semantic Map. WWW 2010 (demo paper). To appear.
49. Linjun Yang, Bo Geng, Alan Hanjalic, **Xian-Sheng Hua**. Contextual Image Retrieval Model. Accepted by CIVR 2010.
50. Bo Geng, Linjun Yang, Chao Xu, **Xian-Sheng Hua**. Content-Aware Ranking for Visual Search. Accepted by CPVR 2010.
51. Kerui Min, Linjun Yang, John Wright, Lei Wu, **Xian-Sheng Hua**, Yi Ma. Compact Projection: Simple and Efficient Near Neighbor Search with Practical Memory Requirements. Accepted by CPVR 2010.
52. Dinghuang Ji, Meng Wang, Qi Tian, **Xian-Sheng Hua**. "Semi-Automatic Photo Clustering with Distance Metric Learning," International Conference on Visual Communication and Image Processing (VCIP), 2010.
53. Kuiyuan Yang, Meng Wang, **Xian-Sheng Hua**, Hong-Jiang Zhang. Social Image Search with Diverse Relevance Ranking. MMM 2010 ([Best Paper Award](#))

2009

54. Bo Geng, Linjun Yang, Chao Xu, and **Xian-Sheng Hua**, "Ranking Model Adaptation for Domain-Specific Search," ACM Conference on Information and Knowledge Management (CIKM) 2009. ([Best Student Paper Award](#))
55. Guo-Jun Qi *, **Xian-Sheng Hua**, Hong-Jiang Zhang. Learning Distance from Community-Tagged Images. ACM Multimedia 2009.
56. Meng Wang, Bo Liu *, **Xian-Sheng Hua**. Accessible Image Search. ACM Multimedia 2009.
57. Linxie Tang *, Tao Mei, **Xian-Sheng Hua**. Near-Lossless Video Summarization. ACM Multimedia 2009.
58. Hao Xu *, Jingdong Wang, **Xian-Sheng Hua**, Shipeng Li. Tag Refinement by Regularized LDA. ACM Multimedia 2009.
59. Dong Liu *, Meng Wang, **Xian-Sheng Hua**, Hong-Jiang Zhang. Smart Batch Tagging of Photo Albums. ACM Multimedia 2009.
60. Dong Liu *, **Xian-Sheng Hua**, et al. Tag Ranking. WWW 2009.
61. Lei Wu *, Linjun Yang, Nenghai Yu, **Xian-Sheng Hua**. Learning to Tag. WWW 2009.
62. Lusong Li, Tao Mei, Chris Liu, **Xian-Sheng Hua**. GameSense. WWW, 2009. (Poster)
63. Jinlian Guo, Tao Mei, Falin Liu, **Xian-Sheng Hua**. AdOn: An Intelligent Overlay Video Advertising System. SIGIR 2009.
64. Meng Wang, Yan Song, **Xian-Sheng Hua**. Concept Representation Based Video Indexing. SIGIR 2009.

PUBLICATIONS (continued)

65. Linjun Yang, Li Wang, Bo Geng, **Xian-Sheng Hua**. Query Sampling for Ranking Learning in Web Search. SIGIR 2009.
66. Meng Wang, Bo Liu, Linjun Yang, **Xian-Sheng Hua**. Accommodating Colorblind Users in Image Search. SIGIR 2009.
67. Bo Geng, Dacheng Tao, Chao Xu, Linjun Yang, **Xian-Sheng Hua**. Ensemble Manifold Regularization. CVPR 2009.
68. Bo Geng, Linjun Yang, Chao Xu, **Xian-Sheng Hua**. Ranking Model Adaptation for Domain-Specific Search. CIKM 2009 full paper.
69. Dong Liu, Meng Wang, Linjun Yang, **Xian-Sheng Hua**, HongJiang Zhang. Tag Quality Improvement for Social Images. ICME 2009.
70. Bo Liu, Meng Wang, Linjun Yang, Xiuqing Wu, **Xian-Sheng Hua**. Efficient Image and Video Re-Coloring for Colorblindness. ICME 2009.
71. Hao Xu, Jingdong Wang, **Xian-Sheng Hua**, Shipeng Li. Summarizing Tagged Image Collections by Cross-Media Representativeness Voting. ICME 2009.
72. Dong Liu, **Xian-Sheng Hua**, Meng Wang, Hong-Jiang Zhang. Boost Search Relevance for Tag-based Social Image Retrieval. ICME 2009 Workshop on Internet Multimedia Search and Mining.
73. Hao Li, Meng Wang, **Xian-Sheng Hua**. MSRA-MM 2.0: A Large-Scale Web Multimedia Dataset. ICDM Workshop on Internet Multimedia Mining, 2009.
74. Meng Wang, Kuiyuan Yang, **Xian-Sheng Hua**, Hong-Jiang Zhang. Visual Tag Dictionary: Interpreting Tags with Visual Words. ACM Workshop on Web-Scale Multimedia Corpus, in association with ACM MM 2009.

2008

75. Lei Wu *, **Xian-Sheng Hua**, et al. Flick Distance. *ACM Multimedia 2008 (ACMMM 2008)*. Vancouver, Canada, October 2008. ([Best Paper Award Candidate](#))
76. **Xian-Sheng Hua**, Guo-Jun Qi. Online Multi-Label Active Annotation: Towards Large-Scale Content-Based Video Search. *ACM Multimedia 2008 (ACMMM 2008)*. Vancouver, Canada, October 2008.
77. Tao Mei, **Xian-Sheng Hua**, Shipeng Li: Contextual in-image advertising. *ACM Multimedia 2008 (ACMMM 2008)*. Vancouver, Canada, October 2008.
78. Xinmei Tian *, Linjun Yang, Jingdong Wang, Yichen Yang *, Xiuqing Wu, **Xian-Sheng Hua**. Bayesian Video Search Reranking. *ACM Multimedia 2008 (ACMMM 2008)*. Vancouver, Canada, October 2008.
79. Jimin Jia *, Nenghai Yu, **Xian-Sheng Hua**. Annotating Personal Albums via Web Mining. *ACM Multimedia 2008 (ACMMM 2008)*. Vancouver, Canada, October 2008.
80. Meng Wang, **Xian-Sheng Hua**. Study on the Combination of Video Concept Detectors. *ACM Multimedia 2008 (ACMMM 2008)*. Vancouver, Canada, October 2008.
81. Yangqing Jia, Jingdong Wang, Changshui Zhang, **Xian-Sheng Hua**. Finding image exemplars using fast sparse affinity propagation.. *ACM Multimedia 2008 (ACMMM 2008)*. Vancouver, Canada, October 2008.
82. Lusong Li *, Tao Mei, Xian-Sheng Hua, Shipeng Li: ImageSense. *ACM Multimedia 2008 (ACMMM 2008)*. Vancouver, Canada, October 2008.

PUBLICATIONS (continued)

83. **Xian-Sheng Hua**, Tao Mei, Shipeng Li. "When multimedia advertising meets the new Internet era," International Workshop on Multimedia Signal Processing (MMSP), Cairns, Queensland, Australia, 2008. (**Best Poster Award**).
84. Guo-Jun Qi *, **Xian-Sheng Hua**, et al. Two-Dimensional Active Learning for Image Classification. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2008)*, Anchorage, Alaska, USA. June, 2008.
85. Zhengjun Zha *, **Xian-Sheng Hua**, et al. Joint Multi-Label Multi-Instance Learning for Image Classification. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2008)*, Anchorage, Alaska, USA. June, 2008.
86. Guo-Jun Qi *, **Xian-Sheng Hua**, et al. A Joint Appearance-Spatial Distance for Kernel-Based Image Categorization. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2008)*, Anchorage, Alaska, USA. June, 2008.
87. Tao Mei, Yong Wang, **Xian-Sheng Hua**, et al. Coherent Image Annotation by Learning Semantic Distance. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2008)*, Anchorage, Alaska, USA. June, 2008.
88. Jingdong Wang, Yangqing Jia, **Xian-Sheng Hua**, et al. Normalized Tree Partitioning for Image Segmentation. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2008)*, Anchorage, Alaska, USA. June, 2008.
89. Zheng-Jun Zha *, Tao Mei, Jingdong Wang, Zengfu Wang, **Xian-Sheng Hua**. Graph-Based Semi-Supervised Learning with Multi-Label. To appear in *IEEE International Conference on Multimedia & Expo (ICME 2008)*. Hannover, Germany, June 2008.
90. Xinmei Tian *, Linjun Yang, Jingdong Wang, Xiuqing Wu, **Xian-Sheng Hua**. Transductive Video Annotation via Local Learnable Kernel Classifier. To appear in *IEEE International Conference on Multimedia & Expo (ICME 2008)*. Hannover, Germany, June 2008.
91. Bo Geng *, Linjun Yang, Zheng-Jun Zha, Chao Xu, **Xian-Sheng Hua**. Unbiased Active Learning for Image Retrieval. To appear in *IEEE International Conference on Multimedia & Expo (ICME 2008)*. Hannover, Germany, June 2008.
92. Yuan Liu *, Tao Mei, Jinhui Tang, Xiuqing Wu, **Xian-Sheng Hua**. Learning To Video Search Re-Rank Via Pseudo Preference Feedback. To appear in *IEEE International Conference on Multimedia & Expo (ICME 2008)*. Hannover, Germany, June 2008.
93. Jingdong Wang, Xinmei Tian, Linjun Yang, Zheng-Jun Zha, **Xian-Sheng Hua**. Optimized Video Scene Segmentation. To appear in *IEEE International Conference on Multimedia & Expo (ICME 2008)*. Hannover, Germany, June 2008.
94. Yuan Liu *, Tao Mei, Guojun Qi, Xiuqing Wu, **Xian-Sheng Hua**. Query-Independent Learning for Video Search. To appear in *IEEE International Conference on Multimedia & Expo (ICME 2008)*. Hannover, Germany, June 2008.
95. Emily Moxley *, Tao Mei, **Xian-Sheng Hua**, Wei-Ying Ma, B.S. Manjunath. Automatic Video Annotation through Search and Mining. To appear in *IEEE International Conference on Multimedia & Expo (ICME 2008)*. Hannover, Germany, June 2008.
96. Bo Yang *, Tao Mei, Li-Feng Sun, Shi-Qiang Yang, **Xian-Sheng Hua**. Free-Shaped Video Collage. *International Conference on Multi-Media Modeling (MMM)*, Kyoto, Japan, Jan. 2008.
97. Zhiwei Gu *, Tao Mei, Jinhui Tang, Xiuqing Wu, **Xian-Sheng Hua**. MILC²: A Multi-Layer Multi-Instance Learning Approach to Video Concept Detection. *International Conference on Multi-Media Modeling (MMM)*, Kyoto, Japan, Jan. 2008.

PUBLICATIONS (continued)

2007

98. Guo-Jun Qi *, **Xian-Sheng Hua**, Yong Rui, Jinhui Tang, Tao Mei, Hong-Jiang Zhang. Correlative Multi-Label Video Annotation. *ACM International Conference on Multimedia (ACM MM 2007)*, Augsburg, Germany, Sept. 2007. ([Best Paper Award](#))
99. Tao Mei, **Xian-Sheng Hua**, Linjun Yang, Shipeng Li. VideoSense - Towards Effective Online Video Advertising. *ACM International Conference on Multimedia (ACM MM 2007)*, Augsburg, Germany, Sept. 2007. (Full paper)
100. Meng Wang *, **Xian-Sheng Hua**, Xun Yuan *, Yan Song, Li-Rong Dai. Optimizing Multi-Graph Learning: Towards a Unified Video Annotation Scheme. *ACM International Conference on Multimedia (ACM MM 2007)*, Augsburg, Germany, Sept. 2007. (Full paper)
101. Jinhui Tang *, **Xian-Sheng Hua**, Guo-Jun Qi, Meng Wang, Tao Mei, Xiuqing Wu. Structure-Sensitive Manifold Ranking for Video Concept Detection. *ACM International Conference on Multimedia (ACM MM 2007)*, Augsburg, Germany, Sept. 2007. (Full paper)
102. Jingjing Liu *, Wei Lai, **Xian-Sheng Hua**, Yalou Huang, Shipeng Li. Video Search Re-Ranking via Multi-Graph Propagation. *ACM International Conference on Multimedia (ACM MM 2007)*, Augsburg, Germany, Sept. 2007. (Full paper)
103. Jinhui Tang *, **Xian-Sheng Hua**, Guo-Jun Qi *, Xiuqing Wu. Typicality Ranking via Semi-Supervised Multiple-Instance Learning. *ACM International Conference on Multimedia (ACM MM 2007)*, Augsburg, Germany, Sep. 23-29. (Short paper)
104. Zhiwei Gu *, Tao Mei, **Xian-Sheng Hua**, Jinhui Tang *, Xiuqing Wu. Multi-Layer Multi-Instance Kernel for Video Concept Detection. *ACM International Conference on Multimedia (ACM MM 2007)*, Augsburg, Germany, Sept. 2007. (Short paper)
105. Zhengjun Zha *, Tao Mei, **Xian-Sheng Hua**, Guo-Jun Qi *, Zengfu Wang. Refining Video Annotation by Exploiting Pairwise Concurrent Relation. *ACM International Conference on Multimedia (ACM MM 2007)*, Augsburg, Germany, Sept. 2007. (Short paper)
106. Tao Mei, Linjun Yang, **Xian-Sheng Hua**, Hao Wei, Shipeng Li. VideoSense: A Contextual Video Advertising System. *ACM International Conference on Multimedia (ACM MM 2007)*, Augsburg, Germany, Sept. 2007. (Demo)
107. Xueliang Liu *, Tao Mei, **Xian-Sheng Hua**, Bo Yang *, He-Qin Zhou. Video Collage. *ACM International Conference on Multimedia (ACM MM 2007)*, Augsburg, Germany, Sept. 2007. ([Best Demonstration Award](#))
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