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Education

PhD, Hong Kong University of Science & Technology, 2001

Master of Applied Science, Nanyang Technological University, Singapore, 1997

Bachelor of Applied Science, Nanyang Technological University, Singapore, 1994

Academic Appointments

Lee Kong Chian Professor of Computer Science, School of Computing and Information Systems, SMU, Jul 2024 - Present

Professor of Computer Science, School of Computing and Information Systems, SMU, Apr 2021 - Jun 2024

Professor of Information Systems, School of Computing and Information Systems, SMU, Jan 2021 - Mar 2021

Professor, City University of Hong Kong, China, Jul 2015 - Dec 2020

Associate Professor, City University of Hong Kong, China, Mar 2009 - Jun 2015

Assistant Professor, City University of Hong Kong, China, Jan 2002 - Feb 2009

Academic Administrative Positions

ResWORK Fellow, SMU Resilient Workforces Institute, SMU, Oct 2025 - Present

Director, Human-Machine Collaborative Systems Cluster, School of Computing and Information Systems, SMU, Jul 2021 - Present

Other Positions and Affiliations

Visiting Research Professor, NExT++ Research Center, National University of Singapore, Singapore, Dec 2018 - Nov 2020

Awards and Honors

Best Student Paper, Multimedia Modeling, 2017

President Award, City University of Hong Kong, 2017

Best Student Paper, ACM Multimedia, 2016

Best Poster, ACM Multimedia , 2014

Best Paper, International Conference on Internet Multimedia Computing and Service, 2013

Grant Challenge Award (2nd Prize) , ACM Multimedia , 2011

Professional Memberships

Senior Member, IEEE, 2017

Distinguished Scientist , ACM, 2016

RESEARCH

Research and Project Areas

Multimedia Search, Analysis and Mining; Video Analytics; Lifestyle and Wellness Intelligence; Computer Vision and Image Processing; Machine Learning

Publications

Journal Articles [Refereed]

CookingDiffusion: Cooking procedural image generation with Stable Diffusion, by WANG, Yuan; ZHU, Bin; HAO, Yanbin; NGO, Chong-Wah; TAN, Yi; WANG, Xiang. (2025). *ACM Transactions on Multimedia Computing, Communications and Applications*, 1-23. <https://doi.org/10.1145/3771995> (Advance Online)

Towards multimodal emotional support conversation systems, by CHU, Yuqi; LIAO, Lizi; ZHOU, Zhiyuan; NGO, Chong-Wah; HONG, Richang. (2025). *IEEE Transactions on Multimedia*, 27 8276-8287. <https://doi.org/10.1109/TMM.2025.3604951> (Published)

FoodLMM: A versatile food assistant using large multi-modal model, by YIN, Yuehao; QI, Huiyan; ZHU, Bin; CHEN, Jingjing; JIANG, Yu-Gang; NGO, Chong-Wah. (2025). *IEEE Transactions on Multimedia*, 1-38. <https://doi.org/10.48550/arXiv.2312.14991> (Advance Online)

Stream-ViT: Learning streamlined convolutions in Vision Transformer, by PAN, Yingwei; LI, Yehao; YAO, Ting; NGO, Chong-Wah; MEI, Tao. (2025). *IEEE Transactions on Multimedia*, 27 3755-3765. <https://doi.org/10.1109/TMM.2025.3535321> (Published)

PosMLP-Video: Spatial and temporal relative position encoding for efficient video recognition, by HAO, Yanbin; ZHOU, Diansong; WANG, Zhicai; NGO, Chong-Wah; HE, Xiangnan; WANG, Meng. (2024). *International Journal of Computer Vision*, 132 (12), 5820-5840. <https://doi.org/10.21203/rs.3.rs-3485088/v1> (Published)

Learning temporal dynamics in videos with image transformer, by SHU, Yan; QIU, Z; LONG, Fuchen; YAO, Ting; NGO, Chong-Wah; MEI, Tao. (2024). *IEEE Transactions on Multimedia*, 26 8915-8927. <https://doi.org/10.1109/TMM.2024.3383662> (Published)

FoodMask: Real-time food instance counting, segmentation and recognition, by NGUYEN, Huu-Thanh; CAO, Yu; NGO, Chong-Wah; CHAN, Wing-Kwong. (2024). *Pattern Recognition*, 146 1-11. <https://doi.org/10.1016/j.patcog.2023.110017> (Published)

(Un)likelihood training for interpretable embedding, by WU, Jiaxin; NGO, Chong-Wah; CHAN, Wing-Kwong; HOU, Zhijian. (2023). *ACM Transactions on Information Systems*, 42 (3), <https://doi.org/10.1145/3632752> (Published)

SibNet: Food instance counting and segmentation, by NGUYEN, Huu-Thanh.; NGO, Chong-Wah; CHAN,

Wing-Kwong. (2022). *Pattern Recognition*, 124 1-11. <https://doi.org/10.1016/j.patcog.2021.108470> (Published)

Approximate k -NN Graph Construction: A Generic Online Approach, by ZHAO, Wan-Lei; WANG, Hui; NGO, Chong-Wah. (2022). *IEEE Transactions on Multimedia*, 24 1909-1921. <https://doi.org/10.1109/TMM.2021.3073811> (Published)

Learning from web recipe-image pairs for food recognition: Problem, baselines and performance, by ZHU, Bin; NGO, Chong-Wah; CHAN, Wing-Kwong. (2022). *IEEE Transactions on Multimedia*, 24 1175-1185. <https://doi.org/10.1109/TMM.2021.3123474> (Published)

Interactive Search vs. Automatic Search: An Extensive Study on Video Retrieval, by NGUYEN, Phuong-Anh; NGO, Chong-Wah. (2021). *ACM Transactions on Multimedia Computing, Communications and Applications*, 17(2), 1-24. <https://doi.org/10.1145/3429457> (Published)

Mixed Dish Recognition With Contextual Relation and Domain Alignment, by DENG, Lixi; CHEN, Jingjing; NGO, Chong-Wah; SUN, Qianru; TANG, Sheng; ZHANG, Yongdong; CHUA, Tat-Seng. (2022). *IEEE Transactions on Multimedia*, 24 2034-2045. <https://doi.org/10.1109/TMM.2021.3075037> (Published)

Learning to match anchor-target video pairs with dual attentional holographic networks, by HAO, Yan Bin; NGO, Chong-Wah; ZHU, Bin. (2021). *IEEE Transactions on Image Processing*, 30 8130-8143. (Published)

A study of multi-task and region-wise deep learning for food ingredient recognition, by CHEN, Jingjing; ZHU, Bin; NGO, Chong-Wah; CHUA, Tat-Seng; JIANG, Yu-Gang. (2021). *IEEE Transactions on Image Processing*, 30 1514-1526. <https://doi.org/10.1109/TIP.2020.3045639> (Published)

A Hybrid Approach for Detecting Prerequisite Relations in Multi-Modal Food Recipes, by PAN, Liangming; CHEN, Jingjing; LIU, Shaoteng; NGO, Chong-Wah; KAN, Min-Yen; CHUA, Tat-Seng. (2021). *IEEE Transactions on Multimedia*, 23 4491-4501. <https://doi.org/10.1109/TMM.2020.3042706> (Published)

Neighbourhood structure preserving cross-modal embedding for video hyperlinking, by HAO, Yanbin; NGO, Chong-Wah; HUET, Benoit. (2020). *IEEE Transactions on Multimedia*, 22 (1), 188-200. <https://doi.org/10.1109/TMM.2019.2923121> (Published)

A Fine Granularity Object-Level Representation for Event Detection and Recounting, by ZHANG, Hao; NGO, Chong-Wah. (2019). *IEEE Transactions on Multimedia*, 21 (6), 1450-1463. <https://doi.org/10.1109/TMM.2018.2884478> (Published)

Cross-modal recipe retrieval with stacked attention model, by CHEN, Jing-Jing; PANG, Lei; NGO, Chong-Wah. (2018). *Multimedia Tools and Applications*, 77(22), 29457-29473. (Published)

k -means: A revisit, by ZHAO, Wan-Lei; DENG, Cheng-Hao; NGO, Chong-Wah. (2018). *Neurocomputing*, 291 195-206. (Published)

PageSense: Toward Stylewise Contextual Advertising via Visual Analysis of Web Pages, by MEI, Tao; LI, Lusong; TIAN, Xinmei; TAO, Dacheng; NGO, Chong-Wah. (2018). *IEEE Transactions on Circuits and Systems for Video Technology*, 28 (1), 254-266. (Published)

Semantic Reasoning in Zero Example Video Event Retrieval, by DE BOER, M. H. T.; LU, Yi-Jie; ZHANG, Hao; SCHUTTE, Klamer; NGO, Chong-Wah; KRAAIJ, Wessel. (2017). *ACM Transactions on Multimedia Computing, Communications and Applications*, 13 (4), 1-18. (Published)

Blind late fusion in multimedia event retrieval, by DE BOER, Maaïke H. T.; SCHUTTE, Klamer; ZHANG, Hao; LU, Yi-Jie; NGO, Chong-Wah; KRAAIJ, Wessel. (2016). *International Journal of Multimedia Information Retrieval*, 5 (4), 203-217. (Published)

Hierarchical Visualization of Video Search Results for Topic-Based Browsing, by JIANG, Yu-Gang; WANG, Jiajun; WANG, Qiang; LIU, Wei; NGO, Chong-Wah. (2016). *IEEE Transactions on Multimedia*, 18 (11), 2161-2170. (Published)

Fast Covariant VLAD for Image Search, by ZHAO, Wan-Lei; NGO, Chong-Wah; WANG, Hanzi. (2016). *IEEE Transactions on Multimedia*, 18 (9), 1843-1854. (Published)

Hyperlink-Aware Object Retrieval, by ZHANG, Wei; NGO, Chong-Wah; CAO, Xiaochun. (2016). *IEEE Transactions on Image Processing*, 25 (9), 4186-4198. (Published)

Automatic Hookworm Detection in Wireless Capsule Endoscopy Images, by WU, Xiao; CHEN, Honghan;

- GAN, Tao; CHEN, Junzhou; NGO, Chong-Wah; PENG, Qiang. (2016). *IEEE Transactions on Medical Imaging*, 35 (7), 1741-1752. (Published)
- On the use of commonsense ontology for multimedia event recounting, by TAN, Chun-Chet; NGO, Chong-Wah. (2016). *International Journal of Multimedia Information Retrieval*, 5 (2), 73-88. (Published)
- Opinion Question Answering by Sentiment Clip Localization, by PANG, Lei; NGO, Chong-Wah. (2016). *ACM Transactions on Multimedia Computing, Communications and Applications*, 12 (2), 1-19. (Published)
- Detection of bird nests in overhead catenary system images for high-speed rail, by WU, Xiao; YUAN, Ping; PENG, Qiang; NGO, Chong-Wah; HE, Jun-Yan. (2016). *Pattern Recognition*, 51 242-254. (Published)
- Object pooling for multimedia event detection and evidence localization, by ZHANG, Ho; NGO, Chong-Wah. (2016). *ITE Transactions on Media Technology and Applications*, 4 (3), 218-226. (Published)
- Deep Multimodal Learning for Affective Analysis and Retrieval, by PANG, Lei; ZHU, Shiai; NGO, Chong-Wah. (2015). *IEEE Transactions on Multimedia*, 17 (11), 2008-2020. (Published)
- Human Action Recognition in Unconstrained Videos by Explicit Motion Modeling, by JIANG, Yu-Gang; DAI, Qi; LIU, Wei; XUE, Xiangyang; NGO, Chong-Wah. (2015). *IEEE Transactions on Image Processing*, 24 (11), 3781-3795. (Published)
- Topological Spatial Verification for Instance Search, by ZHANG, Wei; NGO, Chong-Wah. (2015). *IEEE Transactions on Multimedia*, 17 (8), 1236-1247. (Published)
- Unsupervised Celebrity Face Naming in Web Videos, by PANG, Lei; NGO, Chong-Wah. (2015). *IEEE Transactions on Multimedia*, 17 (6), 854-866. (Published)
- Click-boosting multi-modality graph-based reranking for image search, by YANG, Xiaopeng; ZHANG, Yongdong; YAO, Ting; NGO, Chong-Wah; MEI, Tao. (2015). *Multimedia Systems*, 21 (2), 217-227. (Published)
- Name-Face Association in Web Videos: A Large-Scale Dataset, Baselines, and Open Issues, by CHEN, Zhi-Neng; NGO, Chong-Wah; ZHANG, Wei; CAO, Juan; JIANG, Yu-Gang. (2014). *Journal of Computer Science and Technology*, 29 (5), 785-798. (Published)
- Video Event Detection Using Motion Relativity and Feature Selection, by WANG, Feng; SUN, Zhanhu; JIANG, Yu-Gang; NGO, Chong-Wah. (2014). *IEEE Transactions on Multimedia*, 16 (5), 1303-1315. (Published)
- Collaborative error reduction for hierarchical classification, by ZHU, Shiai; WEI, Xiao-Yong; NGO, Chong-Wah. (2014). *Computer Vision and Image Understanding*, 124 79-90. (Published)
- Placing Videos on a Semantic Hierarchy for Search Result Navigation, by TAN, Song; JIANG, Yu-Gang; NGO, Chong-Wah. (2014). *ACM Transactions on Multimedia Computing, Communications and Applications*, 10 (4), 1-120. (Published)
- A Hamming Embedding Kernel with Informative Bag-of-Visual Words for Video Semantic Indexing, by WANG, Feng; ZHAO, Wen-Lei; NGO, Chong-Wah; Merialdo, Bernard. (2014). *ACM Transactions on Multimedia Computing, Communications and Applications*, 10 (3), 1-20. (Published)
- Visual Typo Correction by Collocative Optimization: A Case Study on Merchandize Images, by WEI, Xiao-Yong; YANG, Zhen-Qun; NGO, Chong-Wah; ZHANG, Wei. (2014). *IEEE Transactions on Image Processing*, 23 (2), 527-540. (Published)
- Multimedia modeling, by NGO, Chong-Wah; SCHOEFFMANN, Klaus; ANDREPOULOS, Yiannis; BREITENEDER, Christian. (2014). *Multimedia Tools and Applications*, 71 (1), 331-332. (Published)
- Web-Scale Near-Duplicate Search: Techniques and Applications, by NGO, Chong-Wah; XU, Changsheng; KRAAIJ, Wessel; EL SADDIK, Abdulmotaleb. (2013). *IEEE MultiMedia*, 20 (3), 10-12. (Published)
- Near-Duplicate Video Retrieval: Current Research and Future Trends, by LIU, Jiajun; HUANG, Zi; CAI, Hongyun; SHEN, Heng Tao; NGO, Chong-Wah; WANG, Wei. (2013). *ACM Computing Surveys*, 45 (4), 1-23. (Published)
- Circular Reranking for Visual Search, by YAO, Ting; NGO, Chong-Wah. (2013). *IEEE Transactions on Image Processing*, 22 (4), 1642-1653. (Published)

- Flip-Invariant SIFT for Copy and Object Detection, by ZHAO, Wan-Lei; NGO, Chong-Wah. (2013). *IEEE Transactions on Image Processing*, 22 (3), 980-991. (Published)
- Guest editorial: selected papers from ICIMCS 2011, by NGO, Chong-Wah; XU, Changsheng; WU, Xiao; EL SADDIK, Abdulmotaleb. (2013). *Multimedia Systems*, 19 (1), 1-2. (Published)
- Sampling and Ontologically Pooling Web Images for Visual Concept Learning, by ZHU, Shiai; NGO, Chong-Wah; JIANG, Yu-Gang. (2012). *IEEE Transactions on Multimedia*, 14 (4), 1068-1078. (Published)
- Fast Semantic Diffusion for Large-Scale Context-Based Image and Video Annotation, by JIANG, Yu-Gang; DAI, Qi; WANG, Jun; NGO, Chong-Wah. (2012). *IEEE Transactions on Image Processing*, 21 (6), 3080-3091. (Published)
- Boosting web video categorization with contextual information from social web, by WU, Xiao; NGO, Chong-Wah; ZHU, Yi-Ming; PENG, Qiang. (2012). *World Wide Web*, 15 (2), 197-212. (Published)
- Summarizing Rushes Videos by Motion, Object, and Event Understanding, by WANG, Feng; NGO, Chong-Wah. (2012). *IEEE Transactions on Multimedia*, 14 (1), 1-12. (Published)
- Tracking Web Video Topics: Discovery, Visualization, and Monitoring, by CAO, Juan; NGO, Chong-Wah; ZHANG, Yong-Dong; LI, Jin-Tao . (2011). *IEEE Transactions on Circuits and Systems for Video Technology*, 21 (12), 1835-1846. (Published)
- Beyond Search: Event-Driven Summarization for Web Videos, by HONG, Richard; TANG, Jinhui; TAN, Hung-Khoon; NGO, Chong-Wah; YAN, Shuicheng; CHUA, Tat-Seng. (2011). *ACM Transactions on Multimedia Computing, Communications and Applications*, 7 (4), 1-21. (Published)
- Mining Event Structures from Web Videos, by WU, Xiao; LU, Yi-Jie; PENG, Qiang; NGO, Chong-Wah. (2011). *IEEE MultiMedia*, 18 (1), 38-51. (Published)
- Concept-Driven Multi-Modality Fusion for Video Search, by WEI, Xiao-Yong; JIANG, Yu-Gang; NGO, Chong-Wah. (2011). *IEEE Transactions on Circuits and Systems for Video Technology*, 21 (1), 62-73. (Published)
- Efficient Mining of Multiple Partial Near-Duplicate Alignments by Temporal Network, by TAN, Hung-Khoon; NGO, Chong-Wah; CHUA, Tat-Seng. (2010). *IEEE Transactions on Circuits and Systems for Video Technology*, 20 (11), 1486-1498. (Published)
- Data-Driven Approaches to Community-Contributed Video Applications, by WU, Xiao; NGO, Chong-Wah; ZHAO, Wan-Lei. (2010). *IEEE MultiMedia*, 17 (4), 58-68. (Published)
- On the Annotation of Web Videos by Efficient Near-Duplicate Search, by ZHAO, Wan-Lei; WU, Xiao; NGO, Chong-Wah. (2010). *IEEE Transactions on Multimedia*, 12 (5), 448-461. (Published)
- Representations of Keypoint-Based Semantic Concept Detection: A Comprehensive Study, by JIANG, Yu-Gang; YANG, Jun; NGO, Chong-Wah. (2010). *IEEE Transactions on Multimedia*, 12 (1), 42-53. (Published)
- Localized matching using Earth Mover's Distance towards discovery of common patterns from small image samples, by TAN, Hung-Khoon; NGO, Chong-Wah. (2009). *Image and Vision Computing*, 27 (10), 1470-1483. <https://doi.org/10.1016/j.imavis.2009.01.002> (Published)
- Visual word proximity and linguistics for semantic video indexing and near-duplicate retrieval, by JIANG, Yu-Gang; NGO, Chong-Wah. (2009). *Computer Vision and Image Understanding*, 113 (3), 405-414. (Published)
- Real-Time Near-Duplicate Elimination for Web Video Search With Content and Context, by WU, Xiao; NGO, Chong-Wah; HAUPTMANN, Alexander G.. (2009). *IEEE Transactions on Multimedia*, 11 (2), 196-207. (Published)
- Scale-Rotation Invariant Pattern Entropy for Keypoint-Based Near-Duplicate Detection, by ZHAO, Wan-Lei; NGO, Chong-Wah. (2009). *IEEE Transactions on Image Processing*, 18 (2), 412-423. (Published)
- Selection of Concept Detectors for Video Search by Ontology-Enriched Semantic Spaces, by WEI, Xiao-Yong; NGO, Chong-Wah; JIANG, Yu-Gang. (2008). *IEEE Transactions on Multimedia*, 10 (6), 1085-1096. (Published)

- Structuring low-quality videotaped lectures for cross-reference browsing by video text analysis, by WANG, Feng; NGO, Chong-Wah; PONG, Ting-Chuen. (2008). *Pattern Recognition*, 41 (10), 3257-3269. (Published)
- Simulating a smartboard by real-time gesture detection in lecture videos, by WANG, Feng; NGO, Chong-Wah; PONG, Ting-Chuen. (2008). *IEEE Transactions on Multimedia*, 10 (5), 926-935. (Published)
- Measuring novelty and redundancy with multiple modalities in cross-lingual broadcast news, by WU, Xiao; HAUPTMANN, Alexander G.; NGO, Chong-Wah. (2008). *Computer Vision and Image Understanding*, 110 (3), 418-431. (Published)
- Multimodal news story clustering with pairwise visual near-duplicate constraint, by WU, Xiao; NGO, Chong-Wah; HAUPTMANN, Alexander G.. (2008). *IEEE Transactions on Multimedia*, 10 (2), 188-199. (Published)
- OM-based video shot retrieval by one-to-one matching, by PENG, Yuxin; NGO, Chong-Wah; XIAO, Jianguo. (2007). *Multimedia Tools and Applications*, 34 (2), 249-266. (Published)
- Near-duplicate keyframe identification with interest point matching and pattern learning, by ZHAO, Wan-Lei; NGO, Chong-Wah; TAN, Hung-Khoon; WU, Xiao. (2007). *IEEE Transactions on Multimedia*, 9 (5), 1037-1048. (Published)
- Moving-object detection, association, and selection in home videos, by PAN, Zailiang; NGO, Chong-Wah. (2007). *IEEE Transactions on Multimedia*, 9 (2), 268-279. (Published)
- Lecture video enhancement and editing by integrating posture, gesture, and text, by WANG, Feng; NGO, Chong-Wah; PONG, Ting-Chuen. (2007). *IEEE Transactions on Multimedia*, 9 (2), 397-409. (Published)
- Introduction: special issue for the selected papers in the fourth international conference on Intelligent Multimedia Computing and Networking (IMMCN) 2005, by NGO, Chong-Wah; LEONG, Hong-Va. (2007). *Multimedia Tools and Applications*, 34 (2), 137-138. (Published)
- Gestalt-based feature similarity measure in trademark database, by JIANG, Hui; NGO, Chong-Wah; TAN, Hung-Khoon. (2006). *Pattern Recognition*, 39 (5), 988-1001. (Published)
- Clip-based similarity measure for query-dependent clip retrieval and video summarization, by PENG, Yuxin; NGO, Chong-Wah. (2006). *IEEE Transactions on Circuits and Systems for Video Technology*, 16 (5), 612-627. (Published)
- Threading and autodocumenting news videos, by WU, Xiao; NGO, Chong-Wah; LI, Qing. (2006). *IEEE Signal Processing Magazine*, 23 (2), 59-68. (Published)
- Selective object stabilization for home video consumers, by PAN, Zailiang; NGO, Chong-Wah. (2005). *IEEE Transactions on Consumer Electronics*, 51 (4), 1074-1084. (Published)
- Video text detection and segmentation for optical character recognition, by NGO, Chong-Wah; CHAN, Chi-Kwong. (2005). *Multimedia Systems*, 10 (3), 261-272. (Published)
- Video summarization and scene detection by graph modeling, by NGO, Chong-Wah; MA, Yu-Fei; ZHANG, Hong-Jiang. (2005). *IEEE Transactions on Circuits and Systems for Video Technology*, 15 (2), 296-305. (Published)
- Key technologies for content-based video retrieval, by PENG, Y.; PENG, Y.; NGO, C.W.; GUO, Z.; XIAO, J.. (2004). *Jisuanji Gongcheng/Computer Engineering*, 30 (1), 14-. (Published)
- Approach for video retrieval by video clip, by PENG, Y.; PENG, Y.; NGO, C.W.; GUO, Z.; XIAO, J.. (2003). *Ruanjian Xuebao / Journal of Software*, 14 (8), 1409-1417. (Published)
- Motion analysis and segmentation through spatio-temporal slices processing, by NGO, Chong-Wah; PONG, Ting-Chuen; ZHANG, Hong-Jiang. (2003). *IEEE Transactions on Image Processing*, 12 (3), 341-355. (Published)
- On clustering and retrieval of video shots through temporal slices analysis, by NGO, Chong-Wah; PONG, Ting-Chuen; ZHANG, Hong-Jiang. (2002). *IEEE Transactions on Multimedia*, 4 (4), 446-458. (Published)
- Motion-based video representation for scene change detection, by NGO, Chong-Wah; PONG, Ting-Chuen; ZHANG, Hong-Jiang. (2002). *International Journal of Computer Vision*, 50 (2), 127-142. (Published)
- Exploiting image indexing techniques in DCT domain, by NGO, Chong-Wah; PONG, Ting-Chuen; CHIN,

Ronald T.. (2001). *Pattern Recognition*, 34 (9), 1841-1851. (Published)

Video partitioning by temporal slice coherency, by NGO, Chong-Wah; PONG, Ting-Chuen; CHIN, Roland T.. (2001). *IEEE Transactions on Circuits and Systems for Video Technology*, 11 (8), 941-953. (Published)

Recent advances in content-based video analysis, by NGO, Chong-Wah; PONG, Ting-Chuen; ZHANG, Hong-Jiang. (2001). *International Journal of Image and Graphics*, 1 (3), 445-468. (Published)

Motion tracking of human mouth by generalized deformable models, by CHAN, Syin; NGO, Chong-Wah; LAI, Kok F.. (1999). *Pattern Recognition Letters*, 20 (9), 879-887. (Published)

Journal Articles [Non-Refereed]

Empowering weight loss: a pragmatic randomized controlled trial of a theory-driven self-regulation mobile app for young adults with excess body weight, by CHEW, H. S. J.; NGOOI, J. W.; DU, R. C.; CHAN, P. Z.; JANSSON, M.; ZHU, B.; CAO, Y.; NGO, C. W.; FOO, R.; SHABBIR, A.; HO, D.; SEVDALIS, N.; NGIAM, K. Y.. (2025). *European Journal of Cardiovascular Nursing*, 24 1-1. <https://doi.org/10.1093/eurjcn/zvaf122.128> (Published)

Approach for shot retrieval by optimal matching in the bipartite graph, by PENG, Yu-Xin; NGO, Chong-Wah; XIAO, Jian-Guo. (2004). *Tien Tzu Hsueh Pao/Acta Electronica Sinica*, 32 (7), 1135-1139. (Published)

Editorials

Guest editorial: When multimedia meets food: Multimedia computing for food data analysis and applications, by MIN, Weiqing; JIANG, Shuqiang; RADEVA, Petia; PAVLOVIC, Vladimir; NGO, Chong-Wah; AIZAWA, Kiyoharu; LI, Wanqing. (2025). *IEEE Transactions on Multimedia*, 27 2708-2712. <https://doi.org/10.1109/TMM.2025.3566452> (Published)

Intelligent analytics for big video data, by LIU, Wu; MA, Huadong; NGO, Chong-Wah. (2020). *Multimedia Tools and Applications*, 79 (7-8), 4637-4637. (Published)

Special issue on multimedia recommendation and multi-modal data analysis, by HE, Xiangnan; LIU, Zhenguang; ZHANG, Hanwang; NGO, Chong-Wah; KARAMAN, Svebor; ZHANG, Yongfeng. (2019). *Multimedia Systems*, 25 (6), 591-592. <https://doi.org/10.1007/s00530-019-00639-3> (Published)

Conference Proceedings

Seeing culture: A benchmark for visual reasoning and grounding, by SATAR, Burak; MA, Zhixin; IRRAWAN, Patrick Amadeus; MULYAWAN, Wilfried Ariel; JIANG, Jing; LIM, Ee-Peng; NGO, Chong-Wah. (2025.0). *Proceedings of the 2025 Conference on Empirical Methods in Natural Language Processing, Suzhou, China, November 4-9*, (pp. 22238-22254) Suzhou: ACL. <https://doi.org/10.18653/v1/2025.emnlp-main.1131> (Published)

Mitigating cross-modal representation bias for multicultural image-to-recipe retrieval, by WANG, Qing; NGO, Chong-Wah; CAO, Yu; LIM, Ee-Peng. (2025.0). *MM '25: Proceedings of the 33rd ACM International Conference on Multimedia, Dublin, Ireland, October 27-31*, (pp. 6223-6231) New York : ACM. <https://doi.org/10.1145/3746027.3755583> (Published)

From holistic to localized: Local enhanced adapters for efficient visual instruction fine-tuning, by JIAO, Pengkun; ZHU, Bin; CHEN, Jingjing; NGO, Chong-Wah; JIANG, Yugang. (2025.0). *Proceedings of the 2025 International Conference on Computer Vision, Honolulu, Hawaii, October 19-23*, (pp. 1-10) Honolulu, Hawai'i, USA: (Published)

Efficient prompt tuning for hierarchical ingredient recognition, by GUI, Yinxuan; ZHU, Bin; CHEN, Jingjing; NGO, Chong-Wah. (2025.0). *Proceedings of the 2025 IEEE International Conference on Multimedia and Expo (ICME 2025), Nantes, France, June 30 - July 4*, (pp. 1-6) Piscataway, NJ: IEEE. <https://doi.org/10.48550/arXiv.2504.10322> (Presented)

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Video clip retrieval by maximal matching and optimal matching in graph theory, by PENG, Yu-Xin; NGO, Chong-Wah; DONG, Qing-Jie; GUO, Zong-Ming; XIAO, Jian-Guo. (2003.0). *Proceedings of 2003 International Conference on Multimedia and Expo, Baltimore, Maryland, July 6-9*, (pp. 317-320) Baltimore: IEEE Computer Society. (Published)

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Integrating color and spatial features for content-based video retrieval, by LIN, Tong; NGO, Chong-Wah; ZHANG, Hong-Jiang; SHI, Qing-Yun. (2001.0). *Proceedings 2001 International Conference on Image Processing, Thessaloniki, Greece, October 7-10*, (pp. 592-595) Thessaloniki, Greece: IEEE. (Published)

On clustering and retrieval of video shots, by NGO, Chong-Wah; PONG, Ting-Chuen; ZHANG, Hong-Jiang. (2001.0). *Proceedings of the 9th ACM International Conference on Multimedia, Ottawa, Canada, 2001 September 30 - October 5*, (pp. 51-60) Ottawa, Canada: Association for Computing Machinery (ACM). (Published)

Motion-based video representation for scene change detection, by NGO, Chong-Wah; PONG, Ting-Chuen; ZHANG, Hong-Jiang; CHIN, Roland T.. (2000.0). *Proceedings 15th International Conference on Pattern Recognition, ICPR-2000, Barcelona, Spain, September 3-7*, (pp. 827-830) Barcelona, Spain: IEEE. (Published)

Motion characterization by temporal slices analysis, by NGO, Chong-Wah; PONG, Ting-Chuen; ZHANG, Hong-Jiang; CHIN, Roland T.. (2000.0). *2000 IEEE Conference on Computer Vision and Pattern Recognition CVPR: Hilton Head, SC, June 15: Proceedings*, (pp. 768-773) Los Alamitos, CA: IEEE Computer Society. <https://doi.org/10.1109/CVPR.2000.854952> (Published)

Detection of gradual transitions through temporal slice analysis, by NGO, C. W.; PONG, T. C.; CHIN, R. T.. (1999.0). *Proceedings of the 1999 IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR'99), Fort Collins, Colorado, June 23-25*, (pp. 36-41) Fort Collins, Colorado: IEEE. (Published)

Camera break detection by partitioning of 2D spatio-temporal images in MPEG domain, by NGO, Chong-Wah. (1999.0). *Proceedings of the 1999 International Conference on Multimedia Computing and Systems, Florence, Italy, June 7-11*, (pp. 750-755) Los Alamitos, CA, United States: IEEE. (Published)

A high speed distributed file system for multimedia communications, by CHEE, C. L.; ERDOGAN, S. S.; NGO, C. W.; WONG, C. K. . (1995.0). *Proceedings of TENCON'94 - 1994 IEEE Region 10's 9th Annual International Conference on: 'Frontiers of Computer Technology', Singapore, August 22-26*, (pp. 254-258) Piscataway, NJ, United States: IEEE. (Published)

Conference Papers

GroundNLQ @ Ego4D natural language queries challenge 2023, by HOU, Zhijian; JI, Lei; GAO, Difei; ZHONG, Wanjun; YAN, Kun; LI, Chao; CHAN, Wing-Kwong; NGO, Chong-Wah; DUAN, Nan; SHOU, Mike Zheng. (2023.0). *3rd International Ego4D workshop, Vancouver, 2023 June 19*, Vancouver. (Presented)

VIREO @ TRECVID 2021 ad-hoc video search, by WU, Jiaxin; NGUYEN, Phuong Anh; NGO, Chong-Wah. (2020.0). *TRECVID 2021, Gaithersburg, December 7-10*, Gaithersburg. (Published)

Vireo-TNO @ Trecvid 2014 zero-shot event detection and recounting, by LU, Yi-Jie; ZHANG, Hao; NGO, Chong-Wah; DE BOER, Maaikje; SCHAVEMAKER, John; SCHUTTE, Klammer; KRAAIJ, Wessel. (2020.0). *2014 TREC Video Retrieval Evaluation, TRECVID 2014, November 10-14*, Orlando. (Published)

VireoJD-MM @ TRECVID 2019: Activities in extended video (ACTEV), by HOU, Zhijian; PAN, Ying-Wei; YAO, Ting; NGO, Chong-Wah. (2020.0). *TRECVID 2019 TREC Video Retrieval Evaluation, Gaithersburg, November 12-13, Gaithersburg*. (Published)

EURECOM at TRECVID AVS 2019, by FRANCIS, Danny; NGUYEN, Phuong Anh; HUET, Benoit; NGO, Chong-Wah. (2019.0). *2019 TREC Video Retrieval Evaluation, TRECVID 2019, Gaithersburg, November 12-13, Gaithersburg*. (Published)

Vireo @ TRecViD 2017: Video-to-text, ad-hoc video search and video hyperlinking, by NGUYEN, Phuong Anh; LI, Qing; CHENG, Zhi-Qi; LU, Yi-Jie; ZHANG, Hao; WU, Xiao; NGO, Chong-Wah. (2017.0). *2017 TREC Video Retrieval Evaluation, TRECVID 2017, Gaithersburg, November 13-15, Gaithersburg*. (Published)

Minimizing risk in video hyperlinking, by NGO, Chong-Wah; CHENG, Zhi-Qi; WU, Xiao. (2017.0). *2017 TREC Video Retrieval Evaluation, TRECVID 2017, Gaithersburg, November 13-15, Gaithersburg*. (Published)

VIREO@TRECVID 2016: Multimedia event detection, ad-hoc video search, video to text description, by ZHANG, Hao; PANG, Lei; LU, Yi-Jie; NGO, Chong-Wah. (2016.0). *2016 TREC Video Retrieval Evaluation, TRECVID 2016, Gaithersburg, USA, November 14-16, Gaithersburg*. (Published)

Multimedia event detection: Strong by integration, by ZHANG, Hao; DE BOER, Maaïke; LU, Yi-Jie; SCHUTTE, Klamer; KRAAIJ, Wessel; NGO, Chong-Wah. (2015.0). *2015 TREC Video Retrieval Evaluation, TRECVID 2015, Gaithersburg, November 16-18, Gaithersburg*. (Published)

Vireo-Tno @ TRECVID 2015: Multimedia event detection, by ZHANG, Hao; LU, Yi-Jie; DE BOER, Maaïke; TER HAAR, Frank; QIU, Zhaofan; SCHUTTE, Klamer; KRAAIJ, Wessel; NGO, Chong-Wah. (2015.0). *2015 TREC Video Retrieval Evaluation, TRECVID 2015, Gaithersburg, November 16-18, Gaithersburg*. (Published)

Direct or indirect match? Selecting right concepts for zero-example case, by LU, Yi-Jie; DE BOER, Maaïke; ZHANG, Hao; SCHUTTE, Klamer; KRAAIJ, Wessel; NGO, Chong-Wah. (2015.0). *2015 TREC Video Retrieval Evaluation, TRECVID 2015, Gaithersburg, November 16-18, Gaithersburg*. (Published)

Vireo-Tno @ TRECVID 2014: Multimedia event detection and recounting (MED and MER), by NGO, Chong-Wah; LU, Yi-Jie; ZHANG, Hao; YAO, Ting; TAN, Chun-Chet; PANG, Lei; DE BOER, Maaïke; SCHAVEMAKER, John; SCHUTTE, Klamer; KRAAIJ, Wessel. (2020.0). *2014 TREC Video Retrieval Evaluation, TRECVID 2014, Orlando, November 10-12, Orlando*. (Published)

Vireo @ TRecViD 2014: Instance search and semantic indexing, by ZHANG, Wei; ZHANG, Hao; YAO, Ting; LU, Yijie; CHEN, Jingjing; NGO, Chong-Wah. (2020.0). *2014 TREC Video Retrieval Evaluation, TRECVID 2014, Orlando, November 10-12, Orlando*. (Published)

Search of small objects by topology matching, context modeling, and pattern mining, by ZHANG, Wei; NGO, Chong-Wah. (2013.0). *TRECVID 2013 TREC Video Retrieval Evaluation, Gaithersburg, November 20-22, Gaithersburg*. (Published)

Vireo/ECNU @ TRECVID 2013: A video dance of detection, recounting and search with motion relativity and concept learning from wild, by NGO, Chong-Wah; WANG, Feng; ZHANG, Wei; TAN, Chun-Chet; SUN, Zhanhu; ZHU, Shi-Ai; YAO, Ting. (2013.0). *TRECVID 2013 TREC Video Retrieval Evaluation, Gaithersburg, November 20-22, Gaithersburg*. (Published)

The vireo team at MediaEval 2013: Violent Scenes Detection by mid-level concepts learnt from youtube, by TAN, Chun Chet; NGO, Chong-Wah. (2013.0). *Multimedia Benchmark Workshop, MediaEval 2013, Barcelona, Spain, October 18-19, Barcelona*. (Published)

VIREO@TRECVID 2012: Searching with topology, recounting with small concepts, learning with free examples, by ZHANG, Wei; TAN, Chun-Chet; ZHU, Shi-Ai; YAO, Ting; PANG, Lei; NGO, Chong-Wah. (2012.0). *TREC Video Retrieval Evaluation, TRECVID 2012, Gaithersburg, November 26-28, Gaithersburg*. (Published)

The shanghai-hongkong team at mediaeval2012: Violent scene detection using trajectory-based features, by JIANG, Yu-Gang; DAI, Qi; TAN, Chun Chet; XUE, Xiangyang; NGO, Chong-Wah. (2012.0). *Multimedia Benchmark Workshop, MediaEval 2012, Pisa, Italy, October 4-5, Pisa, Italy*. (Published)

VIREO@TRECVID 2011: Instance search, semantic indexing, multimedia event detection and known-item search, by NGO, Chong-Wah; ZHU, Shi-Ai; ZHANG, Wei; TAN, Chun-Chet; YAO, Ting; PANG, Lei; TAN, Hung-Khoon. (2011.0). *TREC Video Retrieval Evaluation, TRECVID 2011, Gaithersburg, December 5-7, Gaithersburg*. (Published)

VIREO at TRECVID 2010: Semantic indexing, known-item search, and content-based copy detection, by

NGO, Chong-Wah; ZHU, Shi-Ai; TAN, Hung-Khoon; ZHAO, Wan-Lei. (2010.0). *TREC Video Retrieval Evaluation, TRECVID 2010, Gaithersburg, November 15-17, Gaithersburg*. (Published)

VIREO/DVMM at TRECVID 2009: High-level feature extraction, automatic video search, and content-based copy detection, by NGO, Chong-Wah; JIANG, Yu-Gang; WEI, Xiao-Yong; ZHAO, Wanlei; LIU, Yang; WANG, Jun; ZHU, Shiai; CHANG, Shih-Fu. (2009.0). *TREC Video Retrieval Evaluation, TRECVID 2009, Gaithersburg, November 16-17, Gaithersburg*. (Published)

Beyond semantic search: What you observe may not be what you think, by NGO, Chong-Wah; JIANG, Yu-Gang; WEI, Xiaoyong; ZHAO, Wanlei; WANG, Feng; WU, Xiao; TAN, Hung-Khoon. (2008.0). *TREC Video Retrieval Evaluation, TRECVID 2008, Gaithersburg, November 17-18, Gaithersburg*. (Published)

Columbia University/VIREO-cityU/IRIT TRECVID2008 high-level feature extraction and interactive video search, by CHANG, Shih-Fu; HE, Junfeng; JIANG, Yu-Gang; EL KHOURY, Elie; NGO, Chong-Wah; YANAGAWA, Akira; ZAVESKY, Eric. (2008.0). *TREC Video Retrieval Evaluation, TRECVID 2008, Columbia University, October 26, Columbia University*. (Published)

Concept detection: Convergence to local features and opportunities beyond, by CHANG, Shih-Fu; HE, Junfeng; JIANG, Yu-Gang; EL KHOURY, Elie; NGO, Chong-Wah; YANAGAWA, Akira; ZAVESKY, Eric. (2008.0). *TREC Video Retrieval Evaluation, TRECVID 2008, Columbia University, October 26, Columbia University*. (Published)

Experimenting VIREO-374: Bag-of-visual-words and visual-based ontology for semantic video indexing and search, by NGO, Chong-Wah; JIANG, Yu-Gang; WEI, Xiaoyong; WANG, Feng; ZHAO, Wanlei; TAN, Hung-Khoon; WU, Xiao. (2007.0). *TREC Video Retrieval Evaluation, TRECVID 2007, Gaithersburg, November 5-6, Gaithersburg*. (Published)

Modeling local interest points for semantic detection and video search at TRECVID 2006, by JIANG, Yu-Gang; WEI, Xiaoyong; NGO, Chong-Wah; TAN, Hung-Khoon; ZHAO, Wanlei; WU, Xiao. (2006.0). *TREC Video Retrieval Evaluation, TRECVID 2006, Gaithersburg, November 13-14, Gaithersburg*. (Published)

Motion-based approach for BBC rushes structuring and characterization, by NGO, Chong-Wah; PAN, Zailiang. (2005.0). *TREC Video Retrieval Evaluation, TRECVID 2005, Gaithersburg, November 14-15, Gaithersburg*. (Published)

Research Grants

Singapore Management University

AI-InterRAI: AI-Assisted InterRAI Assessment and Evaluation for Person-Centred Care Planning and Healthy Ageing, Singapore-New Zealand Joint Grant Call on Leveraging AI for Healthy Ageing, AI Singapore, National University of Singapore (NUS), PI (Project Level): DAI Bing Tian, Co-PI (Project Level): TAN Kar Way, NGO Chong Wah, 2025, S\$1,329,998.8

Food Recognition: Causality-driven Cross-modal Cross-lingual Domain Adaptation, Academic Research Fund (AcRF) Tier 2, Ministry of Education (MOE), PI (Project Level): NGO Chong Wah, Co-PI (Project Level): Rajesh Krishna BALAN, 2023, S\$749,177

Unleashing the Power of Pre-trained Models for VisualQA: A Skill-based Framework, Academic Research Fund (AcRF) Tier 2, Ministry of Education (MOE), PI (Project Level): Jing JIANG, Co-PI (Project Level): NGO Chong Wah, 2023, S\$656,253

Interpretable Embedding for Interactive Video Search, SMU Internal Grant, Ministry of Education (MOE) Tier 1, PI (Project Level): NGO Chong Wah, 2020, S\$98,950

Other Institutions

Automated CWD Detection with Machine Learning for Vessel-based Line Transect Survey, Marine Ecology Enhancement Fund, Hong Kong Airport Authority Co-PI (Project Level): NGO Chong Wah, 2020

Sport Video Analysis and Retrieval, Innovation and Technology Support Programme, Innovation and Technology Fund, Hong Kong PI (Project Level): NGO Chong Wah, 2019

Query-aware Video Recounting, Attention, Captioning, Indexing, General Program, National Natural Science of Foundation of China (NSFC) Co-PI (Project Level): NGO Chong Wah, 2019

S3: A Multi-perspective Video Search Paradigm, France/Hong Kong Joint Research Scheme, Research Grants Council (RGC) of Hong Kong PI (Project Level): NGO Chong Wah, 2018

Chinese Food Scanner: Modeling Ingredient Composition from Multimedia Perspective, General Research Fund, Research Grants Council (RGC) of Hong Kong PI (Project Level): NGO Chong Wah, 2017

Multimedia Hyperlinking: From Similarity Ranking to Entity Linking, General Research Fund, Research Grants Council (RGC) of Hong Kong PI (Project Level): NGO Chong Wah, 2016

Zero-Shot Multimedia Event Detection and Evidence Localization, Microsoft Research Asia Collaborative Research Grant, Microsoft Research Asia PI (Project Level): NGO Chong Wah, 2015

A Joint Learning/MOOC Platform for Hong Kong's Tertiary Education Sector, Teaching and Learning Fund, University Grants Council (UGC) of Hong Kong Co-PI (Project Level): NGO Chong Wah, 2015

Beyond Relevancy: Multimedia Analytics for Exploratory Video Search, General Research Fund, Research Grants Council (RGC) of Hong Kong PI (Project Level): NGO Chong Wah, 2014

Big data pattern discovery based on multi-modal feature fusion, National High-tech R&D Program (863 program), Ministry of Science and Technology, China Co-PI (Project Level): NGO Chong Wah, 2014

Beyond Concept Annotation: Multimedia Event Detection and Recounting, General Research Fund, Research Grants Council (RGC) of Hong Kong PI (Project Level): NGO Chong Wah, 2013

Mobile Media Retrieval: From Instance Search to Question Answering, General Research Fund, Research Grants Council (RGC) of Hong Kong PI (Project Level): NGO Chong Wah, 2012

Large-Scale Exploratory Video Search by Social Networking, Microsoft Research Asia Windows Phone Academic Program, Microsoft Research Asia PI (Project Level): NGO Chong Wah, 2012

On the Fusion of Heterogeneous Modalities for Large-Scale Multimedia Search, General Program, National Natural Science of Foundation of China (NSFC) PI (Project Level): NGO Chong Wah, 2012

Scalable Partial Near-Duplicate Search and Its Applications to Topical Video Browsing, General Research Fund, Research Grants Council (RGC) of Hong Kong PI (Project Level): NGO Chong Wah, 2010

Web-Scale Multimedia Search: From Semantic Detection to Cross-Media Reasoning, General Research Fund, Research Grants Council (RGC) of Hong Kong PI (Project Level): NGO Chong Wah, 2009

Multimedia-based Hyperlink Construction and Modeling for Web Video Search, General Research Fund, Research Grants Council (RGC) of Hong Kong PI (Project Level): NGO Chong Wah, 2008

Exploiting Interaction and Co-occurrence of Multi-modal Features for Early Fusion in Retrieval, General Research Fund, Research Grants Council (RGC) of Hong Kong PI (Project Level): NGO Chong Wah, 2006

Common Pattern Discovery in Images and Videos, General Research Fund, Research Grants Council (RGC) of Hong Kong PI (Project Level): NGO Chong Wah, 2005

A Spatio-temporal Framework for Video Representation and Retrieval, General Research Fund, Research Grants Council (RGC) of Hong Kong PI (Project Level): NGO Chong Wah, 2002

TEACHING

Courses Taught

Singapore Management University

Undergraduate Programmes :

Data Management

Operating System Concepts with Android
Operating Systems

Postgraduate Professional Programmes :

Capstone Project - Data Science and Engineering
Introduction to Artificial Intelligence

Postgraduate Research Programmes :

Empirical Research Project 1
Empirical Research Project 2
Empirical Research Project 3
Empirical Research Project I
Empirical Research Project II
Empirical Research Project III

THESES AND DISSERTATIONS

Theses and Dissertations Supervised

Other Institutions

Supervisor, "Towards Learning Compatible, self-explainable, transferable features for cross-modal recipe retrieval", Thesis by Bin Zhu , PhD, City University of Hong Kong, 2021

Supervisor, "Interactive Video Retrieval", Thesis by Phuong-Anh Nguyen , PhD, City University of Hong Kong, 2020

Supervisor, "Cross-Modal Cooking Recipe Retrieval", Thesis by Jing Jing Chen , PhD, City University of Hong Kong, 2018

Supervisor, "Zero-Example Multimedia Search Using Large-scale Knowledge Bank", Thesis by Yijie Lu , PhD, City University of Hong Kong, 2018

Supervisor, "Deep Fine-grained Video Representation for Large-scale Multimedia Retrieval and Recounting", Thesis by Hao Zhang , PhD, City University of Hong Kong, 2017

Supervisor, "Multimedia Content Understanding by Analyzing Perceived Signals: Face, Sentiment and Emotion", Thesis by Lei Pang , PhD, City University of Hong Kong, 2015

Supervisor, "Searching and Mining Visual Instances in Large-Scale Video Collection", Thesis by Wei Zhang , PhD, City University of Hong Kong, 2015

Supervisor, "Multimedia Search by Self, External and Crowdsourcing Knowledge, ACM SIGMM Outstanding Thesis Award", Thesis by Ting Yao , PhD, City University of Hong Kong, 2014

Supervisor, "Video Content Recounting by Commonsense Knowledge", Thesis by Chun Chet Tan , PhD, City University of Hong Kong, 2014

Supervisor, "Sampling Web Images for Large-scale Concept Learning", Thesis by Shiai Zhu , PhD, City University of Hong Kong, 2013

Supervisor, "Topical Video Browsing by Cross-Media and Cross-Source Linking", Thesis by Song Tan , PhD, City University of Hong Kong , 2013

Supervisor, "Algorithm and Techniques for Large-scale Near-duplicate Video Mining", Thesis by Wanlei Zhao , PhD, City University of Hong Kong , 2010

Supervisor, "Concept-based Video Search by Semantic and Context Reasoning", Thesis by Xiao-Yong Wei , PhD, City University of Hong Kong , 2010

Supervisor, "Video Hyperlinking for Multimedia Search", Thesis by Hung Khoon Tan , PhD, City University of Hong Kong , 2010

Supervisor, "Large-scale Semantic Concept Detection, Fusion and Selection for Domain Adaptive Video Search", Thesis by Yu-Gang Jiang , PhD, City University of Hong Kong , 2009

Supervisor, "On Clustering, Detection, and Threading of Topics for Large-scale Videos with Multiple Modalities", Thesis by Xiao Wu , PhD, City University of Hong Kong , 2008

Supervisor, "Common Pattern Discovery and Multiple Appearance Modeling for Visual Content Analysis", Thesis by Tan Hong Khoon , MPhil, City University of Hong Kong , 2007

Supervisor, "Content Parsing of Home Videos by Motion Analysis", Thesis by Zailiang Pan , MPhil, City University of Hong Kong , 2005

Supervisor, "Polyphonic Song Analysis and Representation for Query-by-singing Systems", Thesis by Tan-Wan Leung , MPhil, City University of Hong Kong , 2005

Theses and Dissertations Assessed

Other Institutions

Co Supervisor, "Video Content Analysis and Its Applications for Multimedia Authoring of Presentations", Thesis by Feng Wang , PhD, Hong Kong University of Science and Technology , 2006

Co Supervisor, "Modeling with Panoramic Image Network for Image-based Walkthroughs", Thesis by Sau Kuen Wan , MPhil, City University of Hong Kong , 2005

Co Supervisor, "Matching and Retrieval of 3D deformable models", Thesis by Kwok Leung Tam , MPhil, City University of Hong Kong , 2004

EXTERNAL SERVICE – PROFESSIONAL

Core member, Hong Kong Computer Society, Artificial Intelligence Specialist Group , 2018 - Present

Steering Committee Member, ACM Multimedia Asia, 2017 - Present

Steering Committee Member, IEEE ICME 10K Award Committee , 2016 - 2018

Steering Committee Member, TRECVID, NIST USA , 2015 - Present

Editor Associate Editor, ITE Trans. on Media Technology and Applications , 2015 - Present

Editor Associate Editor, IET Computer Vision , 2015 - Present

Steering Committee Member, ACM Conf. on Multimedia Retrieval , 2015 - Present

Guest Editor, International Journal of Multimedia Tools and Applications , 2014

Guest Editor, Multimedia Systems Journal , 2013

Guest Editor, IEEE Multimedia Magazine , 2013

Editor Associate Editor, IEEE Trans. on Multimedia , 2011 - 2014

Editor Associate Editor, Journal of Multimedia Data Engineering and Management , 2010 - Present

Editor Associate Editor, Journal of Advances in Multimedia , 2010 - 2017

Chairperson, ACM Hong Kong Chapter , 2008 - 2009