

MOHAN KANKANHALLI

School of Computing
National University of Singapore
13 Computing Drive, Singapore 117417
Phone: (+65) 6516-6738
Email: dcsmsk@nus.edu.sg

Education

- 07/1982–05/1986 **B.Tech. (Hons) in Electrical Engineering.**
Indian Institute of Technology, Kharagpur.
- 08/1986–05/1988 **M.S. in Computer & Systems Engineering.**
Rensselaer Polytechnic Institute, Troy, New York, USA.
- 06/1988–10/1990 **Ph.D. in Computer & Systems Engineering.**
Rensselaer Polytechnic Institute, Troy, New York, USA.

Professional Appointments

- 03/2024–present **Director.** NUS AI Institute.
- 07/2022–present **Deputy Executive Chairman.** AI Singapore (Singapore's National AI Program).
- 07/2016–12/2022 **Dean.** School of Computing, National University of Singapore.
- 01/2016–present **Provost's Chair Professor.** Dept. of Computer Science, School of Computing, National University of Singapore.
- 01/2014–06/2016 **Vice Provost for Graduate Education.** National University of Singapore.
- 01/2011–12/2013 **Associate Provost for Graduate Education.** National University of Singapore.
- 07/2007–12/2010 **Vice-Dean (Academic Affairs & Graduate Studies).** School of Computing, National University of Singapore.
- 12/2001–06/2007 **Vice-Dean (Research).** School of Computing, National University of Singapore.
- 07/2005–present **Professor.** Dept. of Computer Science, School of Computing, National University of Singapore.
- 07/2000–06/2005 **Associate Professor.** Dept. of Computer Science, School of Computing, National University of Singapore.
- 05/1998–06/2000 **Senior Lecturer.** Dept. of Computer Science, School of Computing, National University of Singapore.
- 07/1997–06/1998 **Assistant Professor.** Dept. of Electrical Engineering, Indian Institute of Science, Bangalore.

10/1990–06/1997 **Associate, Research Staff**. Institute of Systems Science (ISS), National University of Singapore.

08/1986–09/1990 **Research Assistant**, ECSE Department, RPI, Troy, New York.

Visiting Appointments

01/2013–04/2013 **Visitor**. University College London.

01/2004–06/2004 **Visiting Scholar**. University of California, Berkeley.

Key Leadership Roles

University Leadership Roles

1. Director, NUS AI Institute, Mar 2024 – present

- Conceptualized and helped set up the NUS AI Institute with a funding of S\$20 million over 5 years. It has on-going externally funded research of S\$51M.

2. Dean, NUS School of Computing, Jul 2016 – Dec 2022

- Was the Chief Academic Officer for the School, reporting to the NUS Provost, with overall responsibilities for the whole school consisting of 2 departments, 5 undergraduate programs, 6 Masters programs and 2 PhD programs with an enrolment of 4937 undergraduate students, 721 Masters students and 356 Ph.D. students. The school has 156 faculty members, 175 research staff members and 130 administrative/technical staff members with an average annual on-going sponsored research of S\$45 million.
- Oversaw more than tripling of undergraduate enrolment and quadrupling of Masters enrolment over 6 years.
- Introduced three new Masters programs – Master of Computing (Artificial Intelligence), Master of Computing (General Track) and Master of Science (Digital Financial Technology).
- Hired 49 new tenured/tenure-track faculty members and 29 teaching faculty members over 6 years.
- Successfully articulated the need for and secured funding for construction of 2 new buildings of 14,300 m² and 3400 m² areas. Computing 3 Building was completed in 2Q 2022 and Computing 4 Building was completed in 3Q 2023.
- Worked with NUS Development Office to help secure the largest corporate gift in NUS history till now - Sea Group (Singapore's first tech unicorn) has gifted S\$50 million in March 2021. The unrestricted gift is for advancing teaching and research in the School.
- Worked with NUS Development Office to help secure a S\$5.5 million gift from an NUS Alumnus in February 2021 to establish the *Centre for Computing for Social Good and Philanthropy* in the School.
- Established ACE (Advanced Computing for Executive) in 2018 - the executive education arm of the school for developing an alternative revenue stream.
- Established C-TReND (Computing Translational Research and Development)

Centre for industry engagement.

3. Vice Provost & Associate Provost for Graduate Education, NUS, Jan 2011 – Jun 2016

- Was in overall charge of graduate education at NUS consisting of 75 Masters programs and 20 doctoral programs in 16 faculties/schools with an enrolment of 7000 Masters students and 4000 Ph.D. students.
- Was responsible for long-term strategy, policy and operational matters including liaising with Singapore's Ministry of Education.
- Chaired the *Board of Graduate Studies* and was Deputy Chair of *University Committee on Education Policy*.
- Undertook a major reform of doctoral education to introduce rigor and student-centricity in the programs. Also laid the foundations for the formal establishment of the NUS Graduate School.
- Built the financial simulation model for student scholarships funding to ensure long-term financial sustainability of graduate programs. Successfully eliminated the existing financial deficit and built a strong financial buffer to cater for future funding shocks.
- Introduced a major focus on graduate student placements and successfully involved the graduate student society for career fairs.
- Worked with the leadership of CGS (Council of Graduate Schools) to successfully hold the Strategic Leaders Global Summit on Graduate Education on the theme of *Implications of "Big Data" for Graduate Education* in Singapore during Sep 27-29, 2015.

4. Vice Dean (Academic Affairs & Graduate Education), NUS School of Computing, Jul 2007 – Dec 2010

- Was the Deputy Chief Academic Officer for the School with oversight responsibilities on graduate education, for faculty research and professional development, for compensation and promotion & tenure of all faculty members.
- Oversaw a major expansion in the school's Ph.D. program enrolment from 200 to 400.
- Introduced many reforms in the doctoral programs to improve rigor and placements.
- Introduced graduate student awards to encourage top-quality research.
- Initiated pro-active international outreach by running several thematic research workshops to attract top international graduate students.
- Closely worked with the graduate student body for various student well-being initiatives.

3. Vice Dean (Research), NUS School of Computing, Dec 2001 – Jun 2007

- Transformed the School's research office into a one-stop service center that helped PIs in securing, spending and successfully executing grants.
- Initiated automation of many steps of grantsmanship by building templates and enhancing the grants management system. Did major processes simplification and slashing of bureaucracy. Streamlined the process for the start-up grants for new faculty members.
- Helped triple the School's research funding over six years.

Research Leadership Roles

- Director, NUS AI Institute, Mar 2024 – present
Responsible for the overall operations, strategy and finances for the Institute. The university-wide institute covers both fundamental research in AI as well as research in AI+X domains.
- Deputy Executive Chairman, AI Singapore, Jul 2022 – present
Working with the Executive Chairman to manage Singapore’s National AI Program. Funded by Singapore’s National Research Foundation, AI Singapore brings together all Singapore-based research institutions, AI companies and start-ups to conduct research and grow research capability. It encompasses fundamental research, technology grand challenges and industry research. From April 2026, the focus is on Research Talent.
- Director, NUS Center for Research in Privacy Technologies (N-CRiPT), Oct 2018 – present
Led the team of to win the 5-year S\$12 million grant from Singapore’s National Research Foundation for the centre to do end-to-end privacy research, for structured and unstructured data, along the entire data life cycle. The centre does work on multimedia privacy, IoT and embedded systems privacy, privacy for data sharing, privacy in machine learning, federated approaches to privacy and privacy risk management. It consists of 15 faculty members from 3 faculties, 13 research staff members and 25 current graduate students (an additional 16 have already graduated). The center has attracted additional S\$1.98 million funding from 7 industry partners.
- Director, Sensor-enhanced Social Media Centre (SeSaMe), Jul 2012 – Sep 2018
Led the successful award of S\$10 million grant from Singapore’s National Research Foundation for the centre. SeSaMe Research Center focused on long-term research on sensor-enhanced social media that enables linking of static and mobile cyber-physical environments over the Internet by the abstraction of sensing, processing, transportation and presentation and to enable the design of social media applications on cyber-physical systems. The SeSaMe center, which had an external collaboration with Zhejiang University, was evaluated to be successful. This helped the team to secure the grant for N-CRiPT.

Professional Leadership Roles

- Member, EY Global AI Advisory Council, Oct 2025 – present.
- Member, ACM’s Global Technology Policy Council, Apr 2025 – present.
- Member, World Economic Forum’s Global Future Council on AI, Jan 2023 – Dec 2024.
- Associate Editor-in-Chief, IEEE Multimedia, Jan 2018 – present.
In charge of managing all aspects related to special issues and help the editor-in-chief for any IEEE Publications Board matters.
- Senior Associate Editor, ACM Transactions on Multimedia Computing, Communications and Applications, Jan 2014 – Aug 2025.
In charge recruitment of new Associate Editors, managing conflicts related to the journal and helping the editor-in-chief for strategic matters.
- Director of Conferences, ACM Special Interest Group on Multimedia (ACM SIGMM), Jul 2009 – Jun 2013.
Was in overall charge of all aspects of all conferences sponsored by ACM

SIGMM. Undertook a major reform of the flagship *ACM International Conference on Multimedia*, bringing in formal processes, ensuring proper planning and financial sustainability.

Research Interests

Multimedia Computing, Computer Vision, Trustworthy AI

Publications

• Conference Publications

1. MimiCAT: Mimic with Correspondence-Aware Cascade-Transformer for Category-Free 3D Post. Z Chai, C Tang, Y Wong, X Yang, M Kankanhalli. *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2026)*, Jun 2026.
2. Aggregating Diverse Cue Experts for AI-Generated Image Detection. L Tan, S Li, M Kankanhalli, R Tan. *AAAI Conference on Artificial Intelligence (AAAI 2026)*, Jan 2026.
3. Object-Centric Framework for Video Moment Retrieval. Z Li, Y Wong, S Yamazaki, J Liu, M Kankanhalli. *AAAI Conference on Artificial Intelligence (AAAI 2026)*, Jan 2026.
4. The VLLM Safety Paradox: Dual Ease in Jailbreak Attack and Defense. Y Guo, F Jiao, L Nie, M Kankanhalli. *Neural Information Processing Systems (NeurIPS 2025)*, Dec 2025.
5. Fair Deepfake Detectors Can Generalize. H Cheng, M Liu, Y Guo, T Wang, L Nie, M Kankanhalli. *Neural Information Processing Systems (NeurIPS 2025)*, Dec 2025.
6. Nine Ways to Break Copyright Law and Why Our LLM Won't: A Fair Use Aligned Generation Framework, A Sen Sharma, D Sanyal, P Srivastava, S Athreya, S Karande, M Kankanhalli, M Mandal. *ACL Conference on Empirical Methods in Natural Language Processing (EMNLP 2025)*, Nov 2025.
7. Enhancing HOI Detection with Contextual Cues from Large Vision-Language Models, Y Zhan, F Liu, X Luo, X Xu, L Nie, M Kankanhalli. *ACM International Conference on Multimedia (ACMMM 2025)*, Oct 2025.
8. FractalForensics: Proactive Deepfake Detection and Localization via Fractal Watermarks. T Wang, H Cheng, M Liu, M Kankanhalli. *ACM International Conference on Multimedia (ACMMM 2025)*, Oct 2025.
9. A New Dataset and Benchmark for Grounding Multimodal Misinformation. B Yang, D Xu, K Niu, W Liu, Z Wang, M Kankanhalli. *ACM International Conference on Multimedia (ACMMM 2025)*, Oct 2025.
10. SCAN: Bootstrapping Contrastive Pre-training for Data Efficiency. Y Guo, M Kankanhalli. *International Conference on Computer Vision (ICCV 2025)*, Oct 2025.
11. Improving Video Moment Retrieval via LLM Augmented Nested Adapter. A Bhandari, Y Wong, K Kansal, J Liu, M Kankanhalli. *International Conference on Multimedia Information Processing and*

Retrieval (MIPR 2025), Aug 2025.

12. Tree-of-Evolution: Tree-Structured Instruction Evolution for Code Generation in Large Language Models, Z Luo, K Li, H Lin, Y Tian, M Kankanhalli, J Ma. *Annual Meeting of the Association for Computational Linguistics (ACL 2025)*, Jul 2025.
13. Joint Vision-Language Social Bias Removal for CLIP. H Zhang, Y Guo, M Kankanhalli. *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2025)*, Jun 2025.
14. VideoAutoArena: An Automated Arena for Evaluating Large Multimodal Models in Video Analysis through User Simulation, Z Luo, H Wu, D Li, J Ma, M Kankanhalli, J Li. *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2025)*, Jun 2025.
15. Strong Preferences Affect the Robustness of Value Alignment, Z Xu and M Kankanhalli, *International Conference on Learning Representations (ICLR 2025)*, Apr 2025.
16. Multi-Modal Recommendation Unlearning for Legal, Licensing, and Modality Constraints, Y Sinha, M Mandal, M Kankanhalli. *AAAI Conference on Artificial Intelligence (AAAI 2025)*, Feb 2025.
17. Perplexity-aware Correction for Robust Alignment with Noisy Preferences, K Kong, X Xu, D Wang, J Zhang, M Kankanhalli. *Neural Information Processing Systems (NeurIPS 2024)*, Dec 2024.
18. TOPA: Extending Large Language Models for Video Understanding via Text-Only Pre-Alignment W Li, H Fan, Y Wong, M Kankanhalli, Y Yang. *Neural Information Processing Systems (NeurIPS 2024)*, Dec 2024.
19. Attribute-driven Disentangled Representation Learning for Multimodal Recommendation, Z Li, F Liu, Y Wei, Z Cheng, L Nie, M Kankanhalli, *ACM International Conference on Multimedia (ACMMM 2024)*, Oct 2024.
20. Diffusion Facial Forgery Detection. H Cheng, Y Guo, T Wang, L Nie, Mohan Kankanhalli. *ACM International Conference on Multimedia (ACMMM 2024)*, Oct 2024.
21. EcoVal: An Efficient Data Valuation Framework for Machine Learning, A Tarun, V Chundawat, M Mandal, H Tan, B Chen, M Kankanhalli, *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD 2024)*, Aug 2024.
22. MCM: Multi-condition Motion Synthesis Framework. Z Ling, B Han, Y Wong, H Lin, M Kankanhalli, W Geng. *International Joint Conference on Artificial Intelligence (IJCAI 2024)*, Aug 2024.
23. Improve Multimodal Context Understanding via Multimodal Composition Learning, W Li, H Fan, Y Wong, M Kankanhalli, Y Yang, *International Conference on Machine Learning (ICML 2024)*, Jul 2024.
24. PELA: Learning Parameter-efficient Models with Low-rank Approximation, Y Guo, G Wang, M Kankanhalli, *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2024)*, Jun 2024.
25. Bilateral Adaptation for Human-Object Interaction Detection with Occlusion-Robustness, G Wang, Y Guo, Z Xu, M Kankanhalli, *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR*

- 2024), Jun 2024.
26. Finetuning text-to-image diffusion models for fairness, X Shen, C Du, T Pang, M Lin, Y Wong, M Kankanhalli, *International Conference on Learning Representations (ICLR 2024)*, May 2024.
 27. An LLM can Fool Itself: A Prompt-Based Adversarial Attack, X Xu, K Kong, N Liu, L Cui, D Wang, J Zhang, M Kankanhalli, *International Conference on Learning Representations (ICLR 2024)*, May 2024.
 28. Autolora: A Parameter-free Automated Robust Fine-tuning Framework, X Xu, J Zhang, M Kankanhalli, *International Conference on Learning Representations (ICLR 2024)*, May 2024.
 29. Privacy-Enhancing Person Re-identification Framework: A Dual-Stage Approach, K. Kansal, Y. Wong and M. Kankanhalli, *IEEE Winter Conference on Applications of Computer Vision (WACV 2024)*, Jan 2024.
 30. Efficient Adversarial Contrastive Learning via Robustness-Aware Coreset Selection, X. Xu, J. Zhang, F. Liu, M. Sugiyama and M. Kankanhalli, *Neural Information Processing Systems (NeurIPS 2023)*, Dec 2023.
 31. Enhancing Adversarial Contrastive Learning via Adversarial Invariant Regularization, X. Xu, J. Zhang, F. Liu, M. Sugiyama and M. Kankanhalli, *Neural Information Processing Systems (NeurIPS 2023)*, Dec 2023.
 32. Combating Misinformation in the Era of Generative AI Models, D. Xu, S. Fan and M. Kankanhalli, *Brave New Ideas, ACM International Conference on Multimedia (ACMMM 2023)*, Oct 2023.
 33. Semantic-Guided Feature Distillation for Multimodal Recommendation, F. Liu, H. Chen, Z. Cheng, L. Nie and M. Kankanhalli, *ACM International Conference on Multimedia (ACMMM 2023)*, Oct 2023.
 34. Sample Less, Learn More: Efficient Action Recognition via Frame Feature Restoration, H. Cheng, Y. Guo, L. Nie, Z. Cheng and M. Kankanhalli, *ACM International Conference on Multimedia (ACMMM 2023)*, Oct 2023.
 35. Do Vision-Language Transformers Exhibit Visual Commonsense? An Empirical Study of VCR, Z. Li, Y. Guo, K. Wang, X. Chen, L. Nie and M. Kankanhalli, *ACM International Conference on Multimedia (ACMMM 2023)*, Oct 2023.
 36. Sequential Action Retrieval for Generating Narratives from Long Videos, S. Yamazaki, J. Liu and M. Kankanhalli, *2023 Workshop on User-Centric Narrative Summarization of Long Videos, ACM Multimedia Workshops*, Oct 2023.
 37. Narrative Graph for Narrative Generation from Long Videos, R Sheoran, Y Wong, J Liu and M Kankanhalli, *2023 Workshop on User-Centric Narrative Summarization of Long Videos, ACM Multimedia Workshops*, Oct 2023.
 38. Deep Regression Unlearning, A. Tarun, V. Chundawat, M. Mandal and M. Kankanhalli, *International Conference on Machine Learning (ICML 2023)*, Jul 2023.
 39. DSFNet: Dual Space Fusion Network for Occlusion-Robust 3D Dense Face Alignment, H. Li, B. Wang, Y. Cheng, M. Kankanhalli and R. Tan, *IEEE/CVF Conference on Computer Vision and Pattern Recognition*

(CVPR 2023), Jun 2023.

40. PointListNet: Deep Learning on 3D Point Lists, H. Fan, L. Xu, Y. Yang and M. Kankanhalli, *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2023)*, Jun 2023.
41. Continuous-Discrete Convolution for (3+1)D Geometry-Sequence Modeling in Proteins, H. Fan, Z. Wang, Y. Wang and M. Kankanhalli, *International Conference on Learning Representations (ICLR 2023)*, May 2023.
42. Can Bad Teaching Induce Forgetting? Unlearning in Deep Networks using an Incompetent Teacher, V. Chundawat, A. Tarun, M. Mandal and M. Kankanhalli, *AAAI Conference on Artificial Intelligence (AAAI 2023)*, Feb 2023.
43. Text to Point Cloud Localization with Relation-Enhanced Transformer, G. Wang, H. Fan and M. Kankanhalli, *AAAI Conference on Artificial Intelligence (AAAI 2023)*, Feb 2023.
44. Don't Pour Cereal into Coffee: Differentiable Temporal Logic for Temporal Action Segmentation, Z. Xu, Y. Rawat, Y. Wong, M. Kankanhalli and M. Shah, *Neural Information Processing Systems (NeurIPS 2022)*, Dec 2022.
45. Chairs Can be Stood on: Overcoming Object Bias in Human-Object Interaction Detection, G. Wang, Y. Guo, Y. Wong and M. Kankanhalli, *European Conference on Computer Vision (ECCV 2022)*, Oct 2022.
46. Compute to Tell the Tale: Goal-Driven Narrative Generation, Y. Wong, S. Fan, Y. Guo, Z. Xu, R. Sheoran, K. Stephen, A. Bhamidipati, V. Barsopia, J. Liu and M. Kankanhalli, *Brave New Ideas, ACM International Conference on Multimedia (ACMMM 2022)*, Oct 2022.
47. A Unified End-to-End Retriever-Reader Framework for Knowledge-based VQA, Y. Guo, L. Nie, Y. Wong, Y. Liu, Z. Cheng and M. Kankanhalli, *ACM International Conference on Multimedia (ACMMM 2022)*, Oct 2022.
48. Distance Matters in Human-Object Interaction Detection, G. Wang, Y. Guo, Y. Wong and M. Kankanhalli, *ACM International Conference on Multimedia (ACMMM 2022)*, Oct 2022.
49. Adversarial Attack and Defense for Non-Parametric Two-Sample Tests, X. Xu, J. Zhang, F. Liu, M. Sugiyama and M. Kankanhalli, *International Conference on Machine Learning (ICML 2022)*, Jul 2022.
50. Privacy-Preserving Synthetic Data Generation for Recommendation Systems, F. Liu, Z. Cheng, H. Chen, Y. Wei, L. Nie and M. Kankanhalli, *ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2022)*, Jul 2022.
51. Self-Supervised Global-Local Structure Modeling for Point Cloud Domain Adaptation with Reliable Voted Pseudo Labels, H. Fan, X. Chang, W. Zhang, Y. Cheng, Y. Sun and M. Kankanhalli, *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2022)*, Jun 2022.
52. DIOT: Detecting Implicit Obstacles from Trajectories, Y. Lei, Q. Huang, M. Kankanhalli and A. Tung, *International Conference on Database Systems for Advanced Applications (DASFAA 2022)*, Apr 2022.
53. Unsupervised Motion Representation Learning with Capsule Autoencoders, Z. Xu, X. Shen, Y. Wong and M. Kankanhalli, *Neural Information Processing Systems (NeurIPS 2021)*, Dec 2021.
54. Learning to Predict Trustworthiness with Steep Slope Loss, Y. Luo, Y.

- Wong, M. Kankanhalli and Q. Zhao, *Neural Information Processing Systems (NeurIPS 2021)*, Dec 2021.
55. Motion = Video - Content: Towards Unsupervised Learning of Motion Representation from Videos, H. Fan and M. Kankanhalli, *ACM Multimedia Asia (ACMMMAsia 2021)*, Dec 2021.
 56. Learning Causal Representation for Training Cross-Domain Pose Estimator via Generative Interventions, X. Zhang, Y. Wong, X. Wu, J. Lu, M. Kankanhalli, X. Li and W. Geng, *International Conference on Computer Vision (ICCV 2021)*, Oct 2021.
 57. Human Attributes Prediction under Privacy-preserving Conditions, A. Singh, S. Fan and M. Kankanhalli, *ACM International Conference on Multimedia (ACMMM 2021)*, Oct 2021.
 58. Point 4D Transformer Networks for Spatio-Temporal Modeling in Point Cloud Videos, H. Fan, Y. Yang and M. Kankanhalli, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2021)*, Jun 2021.
 59. Effective Abstract Reasoning with Dual-contrast Network, T. Zhuo and M. Kankanhalli, *International Conference on Learning Representations (ICLR 2021)*, May 2021.
 60. Geometry-aware Instance-reweighted Adversarial Training, J Zhang, J Zhu, G Niu, B Han, M Sugiyama and M Kankanhalli, *International Conference on Learning Representations (ICLR 2021)*, May 2021.
 61. PSTNet: Point Spatio-temporal Convolution on Point Cloud Sequences, H. Fan, X. Yu, Y. Ding, Y. Yang and M. Kankanhalli, *International Conference on Learning Representations (ICLR 2021)*, May 2021.
 62. Identifying Worry in Twitter: Beyond Emotion Analysis, R. Verma, C. von der Weth, J. Vachery and M. Kankanhalli, *Workshop on Natural Language Processing and Computational Social Science (NLP+CSS 2020)*, pp.72-82, Nov 2020.
 63. Who You Are Decides How You Tell, S. Wu, S. Fan, Z. Shen, M.S. Kankanhalli and A. Tung, *ACM International Conference on Multimedia (ACMMM 2020)*, Oct 2020.
 64. Helping Users Tackle Algorithmic Threats on Social Media: A Multimedia Research Agenda, C. von der Weth, A. Abdul, S. Fan and M. Kankanhalli, Brave New Ideas, *ACM International Conference on Multimedia (ACMMM 2020)*, Oct 2020.
 65. n-Reference Transfer Learning for Saliency Prediction, Y. Luo, Y. Wong, M.S. Kankanhalli and Q. Zhao, *European Conference on Computer Vision (ECCV 2020)*, Aug 2020.
 66. Attacks Which Do Not Kill Training Make Adversarial Learning Stronger, J. Zhang, X. Xu, B. Han, G. Niu, L. Cui, M. Sugiyama and M. Kankanhalli, *International Conference on Machine Learning (ICML 2020)*, Jul 2020.
 67. Inferring DQN Structure for High-dimensional Continuous Control, A. Sakryukin, C. Raissi and M. Kankanhalli, *International Conference on Machine Learning (ICML 2020)*, Jul 2020.
 68. Nudging Users to Slow down the Spread of Fake News in Social Media, C. von der Weth, J. Vachery and M. Kankanhalli, *IEEE ICME Media-Rich Fake News Workshop (MedFake 2020)*, Jul 2020.
 69. Locality-Sensitive Hashing Scheme based on Longest Circular Co-Substring, Y. Lei, Q. Huang, M. Kankanhalli and A. Tung, *ACM International Conference on Management of Data (SIGMOD 2020)*, Jun 2020.
 70. COGAM: Measuring and Moderating Cognitive Load in Machine

Learning Model Explanations, A. Abdul, C. von der Weth, M. Kankanhalli and B. Lim, *ACM CHI Conference on Human Factors in Computing Systems (CHI 2020)*, Apr 2020.

71. Weakly-Supervised Multi-person Action Recognition in 360-degrees Videos, J. Li, J. Liu, Y. Wong, S. Nishimura and M. Kankanhalli, *IEEE Winter Conference on Applications of Computer Vision (WACV 2020)*, Mar 2020.
72. GradMix: Multi-source Transfer across Domains and Tasks, J. Li, Z. Xu, Y. Wong, Q. Zhao and M. Kankanhalli, *IEEE Winter Conference on Applications of Computer Vision (WACV 2020)*, Mar 2020.
73. Embedding Symbolic Knowledge into Deep Networks, Y. Xie, Z. Xu, M. Kankanhalli, K. Meel and H Soh, *Neural Information Processing Systems (NeurIPS 2019)*, Dec 2019.
74. Self-supervised Representation Learning using 360 Data, J. Li, J. Liu, Y. Wong, S. Nishimura and M. Kankanhalli, *ACM International Conference on Multimedia (ACMMM 2019)*, Oct 2019.
75. User Diverse Preference Modeling via Multimodal Attentive Metric Learning, F. Liu, Z. Cheng, C. Sun, Y. Wang, L. Nie, and M. Kankanhalli, *ACM International Conference on Multimedia (ACMMM 2019)*, Oct 2019.
76. LiveSense: Contextual Advertising in Live Streaming Videos, X. Chen, Tam V. Nguyen, Z. Shen and M. Kankanhalli, *ACM International Conference on Multimedia (ACMMM 2019)*, Oct 2019.
77. Explainable Video Action Reasoning via Prior Knowledge and State Transitions, T. Zhuo, Z. Cheng, P. Zhang, Y. Wong and M. Kankanhalli, *ACM International Conference on Multimedia (ACMMM 2019)*, Oct 2019.
78. Human-imperceptible Privacy Protection against Machines, Z. Shen, S. Fan, Y. Wong, T. Ng and M. Kankanhalli, *ACM International Conference on Multimedia (ACMMM 2019)*, Oct 2019.
79. Unsupervised Domain Adaptation for 3D Human Pose Estimation X. Zhang, Y. Wong, M. Kankanhalli and W. Geng, *ACM International Conference on Multimedia (ACMMM 2019)*, Oct 2019
80. Augmenting Physiological Time Series Data: A Case Study for Sleep Apnea Detection, K. Nikolaidis, S. Kristiansen, V. Goebel, T. Plagemann, K. Liestl and M. Kankanhalli, *The European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECMLPKDD 2019)*, Sep 2019.
81. A Deep Jersey-Bib Number/Text Recognition in Sports and Marathon Images, S. Nag, R. Raghavendra, P. Shivakumara, U. Pal, T. Lu and M. Kankanhalli, *International Conference on Document Analysis and Recognition (ICDAR 2019)*, Sep 2019.
82. Towards Robust ResNet: A Small Step but a Giant Leap, J. Zhang, B. Han, L. Wiynter, K.H. Low and M.S. Kankanhalli, *International Joint Conference on Artificial Intelligence (IJCAI 2019)*, Aug 2019.
83. Quantifying and Alleviating the Language Prior Problem in Visual Question Answering. Y. Guo, Z. Cheng, L. Nie, Y. Liu, Y. Wang and M. Kankanhalli, *ACM SIGIR Conference on Research and Development on Information Retrieval (SIGIR 2019)*, Jul 2019.
84. Learning to Learn from Noisy Labeled Data, J. Li, Y. Wong, Q. Zhao and M. Kankanhalli, *IEEE Conference on Computer Vision and Pattern*

Recognition (CVPR 2019), Jun 2019.

85. Learning to Detect Human-Object Interactions with Knowledge, B. Xu, Y. Wong, J. Li, Q. Zhao and M. Kankanhalli, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2019)*, Jun 2019.
86. Emotion-Aware Human Attention Prediction, M. Cordel, S. Fan, Z. Shen and M. Kankanhalli, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2019)*, Jun 2019.
87. Sublinear Time Nearest Neighbor Search over Generalized Weighted Space, Y. Lei, Q. Huang, M. Kankanhalli and A. Tung, *International Conference on Machine Learning (ICML 2019)*, pp. 3773-3781, Jun 2019.
88. Unsupervised Learning of View-Invariant Action Representations, J. Li, Y. Wong, Q. Zhao and M. Kankanhalli, *Conference on Neural Information Processing Systems (NIPS 2018)*, Dec 2018.
89. Multi-modal Preference Modeling for Personalized Product Search, Y. Guo, Z. Cheng, L. Nie, X. Xu and M. Kankanhalli, *ACM International Conference on Multimedia (ACMMM 2018)*, Oct 2018.
90. Looking Beyond a Clever Narrative: Visual Context and Attention are Primary Drivers of Affect in Video Advertisements, A. Shukla, H. Katti, M. Kankanhalli and R. Subramanian, *International Conference on Multimodal Interaction (ICMI 2018)*, oct 2018.
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176. Content-based Image Retrieval Using a Composite Color-Shape Approach, B.M. Mehtre, M.S. Kankanhalli and W.F. Lee, *Information Processing and Management*, Vol. 34, No. 1, pp. 109-120, 1998.
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178. Shape Measures for Content Based Image Retrieval: A Comparison, B.M. Mehtre, M.S. Kankanhalli and W.F. Lee, *Information Processing and Management*, Vol. 33, No.3, pp.319-337, 1997.
179. Cluster-based Color Matching for Image Retrieval, M.S. Kankanhalli, B.M. Mehtre and J.K. Wu, *Pattern Recognition*, Vol. 29, No. 4, pp. 701-708, 1996.
180. Selectively Meshed Surface Representation, C. Zhou, R.B. Shu and M.S. Kankanhalli, *Computers & Graphics*. Vol. 19, No. 6, pp. 793-804, Dec 1995.
181. Adaptive Marching Cubes, R.B. Shu, C. Zhou and M.S. Kankanhalli, *The Visual Computer*, Vol. 11, No. 4, pp. 202-217, 1995.
182. Color Indexing for Efficient Image Retrieval, G.P. Babu, B.M. Mehtre and M.S. Kankanhalli, *Multimedia Tools and Applications*, Vol. 1, No. 4, pp. 327-348, Nov 1995.
183. Area and Perimeter Computation of the Union of a Set of Iso-rectangles in Parallel, M.S. Kankanhalli and W.R. Franklin, *Journal of Parallel and Distributed Computing*, Vol. 27, No. 2, pp. 107-117, Jun 1995.
184. Color Matching for Image Retrieval, B.M. Mehtre, M.S. Kankanhalli, A.D. Narasimhalu and G.C. Man, *Pattern Recognition Letters*, Vol. 16, pp. 325-331, Mar 1995.
185. Handling Small Features in Isosurface Generation using Marching Cubes, C. Zhou, R. Shu and M.S. Kankanhalli, *Computers & Graphics*, Vol. 18, No. 6, pp. 845-848, Dec 1994.
186. Efficient Linear Octree Generation from Voxels, R.B. Shu and M.S. Kankanhalli, *Image and Vision Computing*, Vol. 12, No. 5, pp. 297-

303, Jun 1994.

187. Multidimensional On-line Bin-packing: An Algorithm and its Average-case Analysis, E.C. Chang, W. Wang and M.S. Kankanhalli, *Information Processing Letters*, Vol. 48, No. 3, pp. 121-125, Nov 1993.
188. An Adaptive Dominant Point Detection Algorithm for Digital Curves, M. Kankanhalli, *Pattern Recognition Letters*, Vol. 14, No. 5, pp. 385-390, May 1993.
189. Worst and Average Case Evaluation of Heuristics for Multi-processor Scheduling, R.B. Shu, M.S. Kankanhalli and W. Wang, *International Journal of High Speed Computing*, Vol. 4, No. 4, pp. 333-344, Dec 1992.
190. Parallel Object-Space Hidden Surface Removal, W.R. Franklin and M. Kankanhalli, *Computer Graphics*, Vol. 24, No. 4, pp. 87-94, Aug 1990. (Also SIGGRAPH 1990)
191. Geometric Computing and Uniform Grid Technique, V. Akman, W.R. Franklin, M. Kankanhalli and C. Narayanaswami, *Computer-Aided Design*, Vol. 21, No. 7, pp. 410-420, Sep 1989.

- **Books**

- *Perspectives on Content-based Multimedia Systems*, J.K. Wu, M.S. Kankanhalli, J.H. Lim and D.Z. Hong, Kluwer Academic Publishers, Boston, 2000.

- **Edited Books**

- *Intelligent Multimedia Surveillance: Current Trends and Research*, P. K. Atrey, M. Kankanhalli, and A. Cavallaro (Eds.), Springer, 2013.

- **Book Chapters**

- P. Mulhem, J.H. Lim, W.K. Leow and M.S. Kankanhalli, *Advances in Digital Home Photo Albums*, In “Multimedia Systems and Content-Based Image Retrieval”, edited by Sagarmay Deb, pp. 201-226, Idea Group Publishing, 2003.
 - S. Emmanuel and M.S. Kankanhalli, *Digital Rights Management Issues for Video*, In “Multimedia Security Handbook”, edited by Borko Furht and Darko Kirovski, CRC Press, December 2004.
 - P. K. Atrey, A. El Saddik, and M. S. Kankanhalli. *Digital Video Authentication*, In “Handbook of Research on Secure Multimedia Distribution”, IGI Publishers, 2008.
 - W.Q. Yan and M.S. Kankanhalli, *A Cross-modal Approach for Karaoke Artefacts Correction*, In “Handbook of Digital Media in Entertainment and Arts”, Springer, 2009.
 - P. Anandathirtha, K.R. Ramakrishnan, S.K. Raja and M.S. Kankanhalli, *Experiential Sampling for Object Detection in Video*, In “Multimedia Content Analysis: Theory and Applications”, Springer, 2009.
 - N.C. Maddage, H.Z. Li and M.S. Kankanhalli, *A Survey of Music Structure Analysis Techniques for Music Applications*, In “Recent Advances in Multimedia Signal Processing and Communications”, Springer, 2009.
 - W.Q. Yan and M.S. Kankanhalli, *Colour Image Sharing*, in “ Visual Cryptography and Image Sharing”, CRC Press, 2010.
 - M. K. Saini, P. K. Atrey, and M. S. Kankanhalli. *Workload Modeling for Multimedia Surveillance Systems*, In “Emerging Trends in Machine Learning”, Eds. S. Ramanna, L. C. Jain and R. J. Howlett, (Chapter 16), pp 419-440, Springer Press, 2013.

- M Bilalpur, S Kia, M Kankanhalli, R Subramanian and M Murugappan, *Gender and Emotion Recognition from EEG and Eye Movement Patterns*, In "Affective Computing Applications using AI in Healthcare: Methods, Approaches and Challenges in System Design", Ed. M. Murugappan, (Chapter 3), pp 39-65, IET Press, 2024.
- N Wang, M Kankanhalli, *Privacy of Trajectory Data*, In "Encyclopedia of Cryptography, Security and Privacy", Springer Nature, 2025.

Patents

- A Method for Utilizing Medium Nonuniformities to Minimize Unauthorized Duplication of Digital Information, **United States Patent**, Issue Date 02-05-1995, US Patent No. 5,412,718. (co-inventors: A. Desai Narasimhalu and Weiguo Wang)
- Controlled Dissemination of Digital Information, **United States Patent**, Issue Date 16-03-1996, US Patent No. 5,499,298. (co-inventors: A. Desai Narasimhalu and Weiguo Wang)
- System, Method and Apparatus for Management of Agricultural Resource, **Singapore Patent**, Issue Date 20-05-2021, Singapore Patent No. 10201704222V. (co-inventors: I. Sen, D. Dasgupta, A. Joseph, A. Bhattacharya and S. Brown)

Research Funding

- *Principal Investigator* for the grant RP3999903/A (Digital Image and Video Album) which was a S\$1.24 million project over a period of three and a half years (1/2000 - 6/2003). This was a 50-50 co-funded project by the ASTAR (*Agency for Science, Technology and Research*) and MOE (Ministry of Education).
- *Principal Investigator* for the ARF (Ministry of Education Academic Research Fund) grant WBS No. 252-000-160-112 (Cryptographic Techniques for Media Security) which was a S\$43,000 grant for a period of three years (7/2003 - 7/2006).
- *Principal Investigator* for the ARF grant WBS No. 252-000-255-112 (Coopetitive Visual Surveillance) which was a S\$77,520 grant for a period of three years (3/2006 - 3/2009).
- *Principal Investigator* for the ARF grant WBS No. 252-000-208-112 (Event Based Family E-Chronicle) which was a S\$146,150 grant for a period of five years (3/2005 - 3/2010).
- *Principal Investigator* for the NRF/MDA grant WBS No. 252-003-372-490 (Affective Video Analysis and Retrieval) which was a S\$40,500 grant for a period of three years (12/2008 - 12/2011).
- *Principal Investigator* for the ARF grant WBS No. 252-000-419-112 (Real-time Best View Selection in Cyberphysical Environments) which was a S\$107,000 grant for a period of three years (04/2010 - 04/2013).
- *Principal Investigator* for the ASTAR SERC PSF grant WBS No. 252-000-436-305 (Characterizing and Exploiting Human Visual Attention for Automated Image Understanding and Description) which was a S\$300,200 grant for a period of three years (08/2010 - 07/2013).
- *Lead Principal Investigator* for the S\$10 million research grant by NRF Inter-

active & Digital Media Programme Office for the period of 6 years (07/2012 – 09/2018) to lead the *Sensor-enhanced Social Media (SeSaMe) Centre*. Zhejiang University was its external collaborator.

- *Lead Principal Investigator* for the S\$12 million research grant by NRF and IMDA's Smart Systems Research Programme Office for the period of 5 years (10/2018 – 09/2023) to lead the *NUS Centre for Research in Privacy Technologies (N-CRiPT)*.
- *Principal Investigator* for the S\$340,000 research grant by Lloyd's Register Foundation Institute for the Public Understanding of Risk for 3 years (01-01-2019 – 31-12-2021) to develop a risk pulse monitor that can sense public risk perception from social media text, images and video.
- *Principal Investigator* for the S\$600,000 grant as a co-PI for the *Understanding from Unified Perceptual Grounding* work-package as part of the ASTAR AME project on "Human-Robot Collaborative AI for Advanced Manufacturing and Engineering" for a period of five years (11/2018 – 11/2023).
- *Principal Investigator* for the S\$250,000 research grant by NEC Lab Singapore for 2 years (04/2021 – 03/2023) for research into privacy issues for a *GDPR-Compliant Video Surveillance System*.
- *Principal Investigator* for a research grant by NEC Central Research Lab, Tokyo for research in *Narrative Summarization with Privacy Preserved Story Telling* with Phase I funding of S\$47,000 (01/2022 – 03/2022) and Phase II funding of S\$78,500 (04/2022 – 03/2023).

Postdocs

1. Weiqi Yan (2001-2005), Associate Professor, Auckland University of Technology, New Zealand.
2. Hadi Hassan Al Saadi (2001-2002), Assistant Professor, University of Petra, Jordan.
3. Palaiahnakote Shivakumara (2005-2007), Lecturer, University of Salford, UK.
4. Ramanathan Subramanian (2008-2010), Associate Professor, University of Canberra, Australia.
5. Rajiv Sahay (2010-2011), Associate Professor, Indian Institute of Technology, Kharagpur
6. Debashis Sen (2011-2014), Associate Professor, Indian Institute of Technology, Kharagpur
7. Cheng Zhiyong (2016-2019), Professor, Shandong Academy of Sciences, China.
8. Christian von der Weth (2014-2020), Senior Lecturer, NUS School of Computing.
9. Tao Zhuo (2015-2021), Professor, Northwest A&F University, China.
10. Jithin Vachery (2019-2021), Lecturer, NUS School of Computing
11. Murari Mandal (2020-2022), Assistant Professor, KIIT Bhubaneswar, India.
12. Hehe Fan (2020-2022), Assistant Professor, Zhejiang University, China.

13. Kajal Kansal (2021-2024), Assistant Professor, BITS Pilani at Dubai.
14. Shaojing Fan (2015-2024), Senior Lecturer, ECE Department, NUS.
15. Fan Liu (2021-2025), Professor, Southeast University, China.
16. Yangyang Guo (2021-2026), Professor, Beihang University (Hangzhou), China.
17. Ziwei Xu (2022-2025), Research Scientist, Far.ai, Singapore.
18. Yong Kang Wong (2014-present)
19. Harry Cheng (2024-present)
20. Tianyi Wang (2025-present)

PhD Students

1. Sabu Emmanuel, Digital Rights Management for Video Broadcasting, 2002.
2. Zhu Baoshi, Digital Rights Management for Electronic Documents, 2004. (co-advised with Jiankang Wu)
3. Zhu Yongwei, Content-based Music Retrieval by Acoustic Query, 2004.
4. Zhu Bo, Security and Privacy for Large Ad-Hoc Networks, 2005. (co-advised with Robert Deng)
5. Namunu C. Maddage, Content Based Music Structure Analysis, 2005. (co-advised with Changsheng Xu)
6. Pradeep K. Atrey, Information Assimilation in Multimedia Surveillance and Monitoring Systems, 2006.
7. Shao Xi, Content-based Music Summarization, Classification and Retrieval, 2006. (co-advised with Changsheng Xu)
8. Mukesh Saini, Privacy Aware Surveillance System Design, 2012.
9. Chidansh Bhatt, Probabilistic Temporal Multimedia Datamining, 2012.
10. Harish Katti, Human Visual Perception, Study and Applications to Understanding Images and Videos, 2012. (co-advised with Tat-Seng Chua)
11. Wang Xiangyu, Multimedia Decision Fusion, 2012.
12. Prabhu Natarajan, Decision-Theoretic Approach for Controlling and Coordinating Multiple Active Cameras in Surveillance (co-advised with Bryan Low), 2013.
13. Xiang Yangyang, Computational Media Aesthetics for Media Synthesis, 2013.
14. Xiang Xiaohong, Affect Analysis in Video, 2014.
15. Gan Tian, Social Interaction Analysis using a Multi-Sensor Approach, 2015.
16. Yogesh Rawat, Real-Time Assistance in Photography Using Social Media, 2017.
17. Wang Yuhui, Fusing Physical and Social Sensors for Situation Awareness, 2017.
18. Zhang Yehong, Data-Efficient Machine Learning with Multiple Output Types and High Input Dimensions, 2017. (co-advised with Bryan Low)

19. Xiang Chen, Computational Multimedia Advertisement, 2019.
20. Junnan Li, Label Efficient Learning Beyond Manual Annotations, 2019.
21. Bingjie Xu, Human-centered Social Scene Understanding, 2019.
22. Zhang Jingfeng, Robust Learning and Prediction in Deep Learning, 2020.
23. Andrey Sakryukin, Modular Neural Networks, 2021.
24. Lei Yifan, Solving the Distance-aggregation Query in Sub-linear Time, 2021. (co-advised with Anthony Tung)
25. Ashraf Abdul, Improving Usability of Machine Learning Model Explanations: Experiments with Visual and Verbal Cognitive Load, 2022. (co-advised with Brian Lim)
26. Ziwei Xu, Solving Computer Visions Problems under the Compositionality Principle, 2023.
27. Zhiqi Shen. A Human-Centered Approach for Visual Understanding, 2023.
28. Wu Shuang, Personalized Visual Information Captioning, 2023. (co-advised with Anthony Tung)
29. Xudong Chen, Fairness in Human Decisions and Artificial Intelligence, 2024.
30. Guangzhi Wang, Robust Human-Object Interaction Detection Against Biases and Occlusions, 2024.
31. Xilie Xu, Towards Adversarially Robust Representations: Evaluation, Pre-Training, and Fine-Tuning, 2025.
32. Yash Sinha, Machine Unlearning in Graphs, Recommendations and Language Models, 2025.
33. Yi Cheng (on-going)
34. Danni Xu (on-going)
35. Jiahao Lu (on-going)
36. Haoyu Zhang (on-going)

Masters Students

1. Chang Ee Chien (MS, ISS-NUS), Probabilistic Analysis & Parallelization of Bin-Packing Algorithms, 1993. (co-advised with Weiguo Wang)
2. Zhou Chen (MS, ISS-NUS), Techniques for Efficient Surface Rendering in Volume Visualization, 1994.
3. Jiang Xunda (MS, ISS-NUS), Efficient Data Representation and Spatial Relations Computation, 1995.
4. Sun Xinding (MS, ISS-NUS), Feature-based Video Indexing, 1998.
5. Rajmohan (ME, IISc), Robust Watermarking of Digital Images, 1998.
6. J. Sreelatha (ME, IISc), Distributed MPEG/Video Player with QoS Requirements, 1998.
7. Girish C. Sabat (ME, IISc), Client-Server based Advanced Software VCR,

1998.

8. Saraju P. Mohanty (ME, IISc), Adaptive Visible Watermarking of Images, 1999. (co-advised with K R Ramakrishnan)
9. Lin Yi (MS, NUS), Temporal Multiresolution Analysis for Video Segmentation, 2000. (co-advised with Tat-Seng Chua)
10. Zhi Degui (MS, NUS), The Detection and Classification of Gradual Transitions in Digital Video, 2000. (co-advised with Tat-Seng Chua)
11. Shantanu Paknikar (MS, IISc), A Caching and Streaming Framework for Multimedia, 2000. (co-advised with K R Ramakrishnan)
12. Prashant Agrawal (MS, NUS), Development of a Framework for Sensor Networks, 2002.
13. Radhakrishna Achanta (MS, NUS), Object-tracking in Compressed Domain MPEG Video, 2002.
14. Sudeep Kumar (MComp, NUS), Intellibid: An XML-based Framework for Tender Modeling, Publishing and Evaluation, 2002.
15. Sriram Rajagopalan (MComp, NUS), Peer-to-Peer Project Management, 2002.
16. Zhang Qiuying (MS, NUS), XML-based Video Annotation and Querying, 2002.
17. Chen Jiayi (MS, NUS-I2R), Image Indexing and Retrieval Using Speech Annotation, 2002.
18. Jek Charlson So Yu (MS, NUS), Semantic Video Summarization in Compressed Domain MPEG Video, 2002.
19. Jun Wang Jun (MS, NUS), Detecting and Tracking Human Faces in Compressed Video for Content Based Video Indexing, 2002.
20. Ji Yi (MS, NUS), Video Features for Video-Audio Mixing, 2003.
21. Chitra L. Madhwacharyula (MS, NUS), XML Document Instance Transformations, 2003.
22. Abhinav Singh (MS, NUS), Fast and Reliable Techniques for Camera Motion Analysis in Video Documents, 2003.
23. Jin Duo (MS, NUS), Visual Cryptography, 2003.
24. Xu Min (MS, NUS-I2R), Content-based Sports Video Analysis using Multiple Modalities (co-advised with Tian Qi & Xu Changsheng), 2003.
25. Meera G. Nayak (MS, NUS), Music Synthesis for Home Videos, 2004.
26. Mohammad Awrangjeb (MS, NUS), Reversible Watermarking for Content Authentication of Digital Images, 2004.
27. Gaurav Gupta (MComp, NUS), A Framework for Non-intrusive Information Hiding on the World Wide Web, 2004.
28. Kang Yulin (MS, NUS-I2R), Multimodal Video Event Detection (co-advised with Tian Qi & Lim Joo Hwee), 2004.
29. Shen Hui (MS, NUS), Motion Texture for Video, 2004.
30. Song Yaxiao (MS, NUS), Database Watermarking (co-advised with Ooi Beng

- Chin), 2004.
31. Sun Haiping (MS, NUS-I2R), Semantic Soccer Video Analysis (co-advised with Tian Qi & Lim Joo Hwee), 2004)
 32. Fu Wei Gang (MComp, NUS), Digital Audio Scrambling & Integrity Checking, 2005.
 33. Vivek Kumar Singh (MComp, NUS), Cooperative Visual Surveillance using Model Predictive Control, 2005.
 34. Hady Gunawan (MS, NUS), Buyer-Seller Watermarking Protocol in Digital Cinema, 2005.
 35. Karthikeyan Vaiapury (MS, NUS), Finding Interesting Photos in Albums using Attention, 2007.
 36. Florence Wang Ying (MS, NUS), Real Time Best View Selection in Cyber-Physical Environments, 2010.
 37. Karthik Yadati (MComp, NUS), Affective Video Advertisement Insertion: A Computational and Marketing Perspective, 2012 and (MS, NUS), Online Multimedia Advertising, 2013.
 38. Skanda Muralidhar (MComp, NUS), Affective State Determination: A Physiological Perspective, 2014.
 39. Ashraf Abdul (MComp, NUS), Enabling Cyberphysical Social Networks through Opportunistic Intent-based Matching on the Web, 2016.
 40. Akanksha Tiwari (MComp, NUS), Multimodal Multiplatform Social Media Summarization, 2016.
 41. Fu Zixiang (MComp, NUS), Sentigrade: A Linguistic Framework for Sentiment Analysis on Social Media, 2017.
 42. Abhinav Kashyap (MComp, NUS), Aspect-based Multimodal Restaurant Review Summarization, 2017.
 43. Mannu Malhotra (MComp, NUS), Revealing What Worries the World, 2019.
 44. Reyha Verma (MComp, NUS), Identifying Worry in Twitter: Beyond Emotion Analysis, 2020.
 45. Anshu Singh (MComp, NUS), Human Attributes Prediction from Privacy-preserving Image Data, 2020.
 46. Rishabh Sheoran (MComp, NUS), Narrative Graph for Narrative Generation from Long Videos, 2023.
 47. Li Heyuan (MComp, NUS), DSFNET: Dual Space Fusion Network for Occlusion-Robust Dense 3D Face Alignment, 2023. (co-advised with Robby Tan)
 48. Tianyao Zhou (MComp, NUS), Privacy-Aware Recommendation System, 2023.
 49. Yaqi Liu (MS in DFinTech, NUS), Understanding Before Recommendation: Semantic Aspect-Aware Review Exploitation via Large Language Models, 2023.
 50. Wey Yeh Choong (MComp, NUS), Visual Hallucinations in Large Vision-Language Models, 2025.
 51. Anak Agung Yogi Pramana (MComp, NUS), on-going.

52. Haoyu Luo (MComp, NUS), on-going.

Teaching

- CS3235: Computer Security [Sem I: 2001]
- CS3242: Hypermedia Information Processing [Sem II: 1999; 2000; 2001]
- CS4241: Multimedia Information Retrieval [Sem I: 1998; 1999; 2000; 2001]
- CS5231: Cryptographic Techniques and Data Security [Sem I: 2002; 2003; 2004; 2005]
- CS5240: Theory and Practice of Multimedia [Sem I: 2006; 2007; 2008]
- CS5342: Multimedia Computing and Applications [Sem I: 2009, Sem II: 2010, 2011, 2013, Sem II: 2023]

Service

1. Journal Editorial Boards:

- Associate Editor-in-Chief, IEEE Multimedia [01/2018 - present]
- Associate Editor, Springer Multimedia Systems Journal [06/2005 - present]
- Editorial Board Member, Springer LNCS Transactions on Data Hiding and Multimedia Security [3/2005 - present]
- Editorial Board Member, Springer Journal of Big Data [02/2013 - present]
- Advisory Board Member, Elsevier Journal of Information Security and Applications [03/2014 - present]
- Senior Associate Editor, ACM Transactions on Multimedia Computing, Communications and Applications [01/2014 - 08/2025]
- Editorial Board Member, Springer Multimedia Tools and Applications [06/2009 - 12/2021]
- Associate Editor, Pattern Recognition [08/2006 - 08/2021]
- Associate Editor, Elsevier Journal of Information Security and Applications [01/2012 - 03/2014]
- Associate Editor, ACM Transactions on Multimedia Computing, Communications and Applications [11/2005 - 12/2013]
- Associate Editor, IEEE Transactions on Multimedia [03/2006 - 03/2010]
- Associate Editor, IEEE Transactions on Information Forensics and Security [01/2005 - 03/2009]
- Associate Editor, ETRI Journal [10/2006 - 09/2009]
- Associate Editor, International Journal of Virtual Technology and Multimedia (Inderscience) [10/2004 - 2/2015]
- Associate Editor, International Journal of Security and Networks (Inderscience) [6/2005 - 2/2015]

2. Conference Organization:

- Tutorial & Special Sessions Chair, IEEE Pacific-Rim Conference on Multimedia 2001
- Program Co-chair, International Workshop on Advanced Image Technology 2002
- Program Co-Chair, ACM International Conference on Multimedia 2005

- Program Co-Chair, International Conference on Distributed Multimedia Systems 2006
- Area Chair, Asian Conference on Computer Vision ACCV 2006
- Regional Chair, IEE International Conference on Visual Information Engineering 2006
- Program Co-Chair, International Conference on Distributed Multimedia Systems 2007
- Panels Chair, ACM International Conference on Multimedia 2007
- Regional Chair, IEE International Conference on Visual Information Engineering 2007
- Program Co-Chair, ACM International Conference on Image and Video Retrieval 2008
- Organizer, ACM International Workshop on Events in Multimedia 2009
- Brave New Topics Co-Chair, ACM International Conference on Multimedia 2009
- General Co-Chair, IEEE International Symposium on Multimedia 2009
- Organizer, ACM International Workshop on Events in Multimedia 2010
- Tutorial Chair, ACM/IEEE Pacific-Rim Conference on Multimedia 2011
- Liaison Chair, IEEE International Conference on Advanced Video and Signal-Based Surveillance 2011
- Track Chair, IEEE International Conference on Multimedia and Expo 2011
- General Co-Chair, Pacific-Rim Conference on Multimedia 2012
- Best Papers Co-Chair, IEEE International Symposium on Multimedia 2012
- Liaison Chair, IEEE International Conference on Advanced Video and Signal-Based Surveillance 2012
- Publicity Co-Chair, IEEE/ACM International Conference on Distributed Smart Cameras 2013
- Program Co-Chair, IEEE International Conference on Multimedia and Expo 2013
- Panels Co-Chair, IEEE International Symposium on Multimedia 2013
- Program Co-Chair, ACM International Conference on Multimedia Retrieval 2014
- Best Papers Co-Chair, IEEE International Symposium on Multimedia 2014
- Area Chair, ACM International Conference on Multimedia 2014
- Program Co-Chair, IEEE International Conference on Semantic Computing 2015
- Best Papers Co-Chair, IEEE International Conference on Multimedia Big Data 2015
- Panels Co-Chair, IEEE International Symposium on Multimedia 2015
- Liaisons Committee, IEEE/ACM International Conference on Distributed Smart Cameras 2015
- Publicity Co-Chair, IEEE International Conference on Multimedia Big Data 2016
- Area Chair, ACM International Conference on Multimedia 2015

- General Co-Chair, IEEE International Symposium on Multimedia 2016-2022
- Publicity Co-Chair, IEEE International Conference on Semantic Computing 2016
- General Co-Chair, IEEE International Symposium on Multimedia 2017
- Program Co-Chair, IEEE International Conference on Multimedia Information Processing and Retrieval 2018
- Workshops Co-Chair, IEEE International Conference on Multimedia and Expo 2018
- Area Chair, ACM International Conference on Multimedia 2018
- Area Chair, International Conference on Pattern Recognition 2018
- General Co-Chair, IEEE International Conference on Advanced Video and Signal-based Surveillance 2018
- General Co-Chair, IEEE International Symposium on Multimedia 2018
- Honorary Chair, IEEE International Conference on Multimedia Big Data 2019
- General Co-Chair, IEEE International Conference on Multimedia Information Processing and Retrieval 2019
- General Co-Chair, IEEE International Conference on Multimedia Big Data 2020
- Publicity Co-Chair, ACM International Conference on Multimedia 2020
- Best Papers Co-Chair, IEEE International Conference on Multimedia Information Processing and Retrieval 2021
- Doctoral Symposium Co-Chair, ACM International Conference on Multimedia 2021
- General Co-Chair, ACM International Conference on Multimedia Retrieval 2021
- General Co-Chair, IEEE International Conference on Image Processing 2023
- General Co-Chair, ACM International Conference on Multimedia 2024
- General Chair, International Conference on Computer Vision & Image Processing 2024
- Program Co-Chair, ACM International Conference on Multimodal Interactions, 2025.

3. Conference Program Committee Membership:

- IEEE Pacific-Rim Conference on Multimedia (PCM 2001, 2018)
- SPIE/IST Conference on Multimedia Content Access: Algorithms and Systems (2007)
- International Workshops on Digital Watermarking (IWDW 2002-2019)
- IEEE International Conference on Multimedia (ICME 2001-2019)
- International Conference on Multimedia Modeling (MMM 2003-2020)
- ACM International Conference on Multimedia (ACMMM 2004-2019)
- ACM Workshop on Video Surveillance and Sensor Networks (2003-2006)
- Asian Conference on Computer Vision (ACCV 2006, 2014, 2018)
- International Conference on Image and Video Retrieval (CIVR 2006-2009)
- International Conference on Cyberworlds (CYBERWORLDS 2005-2020)

- IEEE International Conference on Image Processing (ICIP 2004, 2009, 2010, 2012, 2014-2018, 2021)
- IEEE International Conference on Computer Vision (ICCV 2015, 2017, 2021)
- International Conference on Computer Vision and Pattern Recognition (CVPR 2014, 2015-2019, 2021)
- IEEE Winter Conference on Applications of Computer Vision (WACV 2015-2018)
- ACM International Conference on Research and Development in Information Retrieval (SIGIR 2016)
- ACM International Conference on Multimedia Retrieval (ICMR 2015-2021)
- International Conference on Neural Information Processing Systems (NeurIPS 2020-2022, 2025)
- IEEE International Conference on Advanced Video and Signal-based Surveillance (AVSS 2022)

4. Service to the Profession

- Member, EY Global AI Advisory Council, Oct 2025 – present.
- Member, ACM Global Technology Policy Council, Apr 2025 – present.
- Member, World Economic Forum’s Global Future Council on AI, Jan 2023 – Dec 2024.
- AI Advisor, Singapore FinTech Festival 2023, Aug 2023 – Nov 2023.
- Director of Conferences, ACM Special Interest Group on Multimedia (ACM SIGMM), Jul 2009 – Jun 2013.
- Member, Executive Committee for Interactive and Digital Media, National Research Foundation, Singapore, Jan 2006 – Dec 2008.

5. University Service:

- Management Board Member, Institute of South Asian Studies, NUS, 2022-present.
- Management Committee Member, Institute for Mathematical Sciences, NUS, 2016-2022.
- Management Board Member, Institute of Systems Science, NUS, 2016-2022.
- Management Committee Co-Chair, NUS-SingTel Corporate Lab on Cybersecurity, 2016-2022.
- Management Committee Chair, Asian Institute of Digital Finance, NUS, 2020-2022.
- Member, Taskforce on the Review of Healthcare Professional Education, NUS, 2021-2022.
- Member, NUS President’s Young Professorship Appointment Committee, 2019-2022.
- Member, School of InfoComm Advisory Committee, Republic Polytechnic, Oct 2026 – Sep 2022.
- Member, Dean Search Committee, NUS Faculty of Engineering, 2019.
- Member, Dean Search Committee, NUS School of Business, 2019.
- Chair, Committee for the Establishment of NUS Graduate School, 2019

- Member, UCEP Sub-Committee on Graduate Education, 2010.
6. Other Service
- Member, IMDA Digital Trust Centre's Trust Tech Technical Committee, Oct 2022 – present.
 - Member, MPA (Maritime and Port Authority of Singapore) MINT (Maritime Innovation and Technology) Fund, Jul 2024 – present.
 - Member, Ministry of Education Edusave Advisory Committee, Jan 2025 – present.

Awards

1. Professional Recognition

- Elected as Fellow of ACM for contributions to Multimedia Content Processing and Security, 2024.
- Elected as Fellow of IAPR for contributions to Multimedia Content Processing and Security, 2024.
- Elected as Fellow of SNAS (Singapore National Academy of Science) for outstanding contributions to Multimedia Content Processing and Security, and Impactful Contributions to Computing Education and Research in Singapore, 2022.
- Elected as Fellow of AIAA (Asia-Pacific Artificial Intelligence Association), 2022.
- Elected as Fellow of IEEE for contributions to Multimedia Content Processing and Security, 2014.

2. Teaching-related Awards

- NUS Excellent Teacher Award 2004.
- NUS Excellent Teacher Award 2003.
- Teaching Excellence Award, NUS School of Computing, 2000.
- Innovative Teaching Award, NUS School of Computing, 1999.

3. Research-related Awards

- Best Paper Award. *A Comprehensive Picture of Factors Affecting User Willingness to Use Mobile Health Applications*, S Fan, R Jain, M Kankanhalli. ACM Transactions on Computing for Healthcare (ACM Health), 2024.
- Winner, MLLM Attack Challenge. *Suffix Injection and Projected Gradient Descent Can Easily Fool An MLLM*. Y Guo, Z Xu, X Xu, Y Wong, L Nie, M Kankanhalli. ICML TiFA (Trustworthy Multi-modal Foundation Models and AI Agents) Workshop, 2024.
- Best BNI (Brave New Ideas) Paper Award, *Compute to Tell the Tale: Goal-Driven Narrative Generation*, Y. Wong, S. Fan, Y. Guo, Z. Zhu, K. Stephen, R. Sheoran, A. Bhamidipati, V. Barsopia, J. Liu and M. Kankanhalli, ACM International Conference on Multimedia 2022.
- Best Student Paper Award, *Human-imperceptible Privacy Protection Against Machines*, Z. Shen, S. Fan, Y. Wong, T. Ng and M. Kankanhalli, ACM International Conference on Multimedia 2019. (Best Paper Award Runner- up)
- Associate Editor of the Year, ACM Transactions on Multimedia Computing, Communications and Applications, 2013

- Editorial Board Member of the Year, Springer Multimedia Systems Journal, 2010.
- Best Reviewer Award, ETRI Journal, 2010.
- Best Paper Award, *Motivating Contributors in Social Media Networks*, V. Singh, R. Jain and M. Kankanhalli, ACM SIGMM Workshop on Social Media, 2009.
- Best Paper Award, *Robust and Reversible Numerical Set Watermarking*, G. Gupta, J. Pieprzyk and M. Kankanhalli, International Conference on Signal Processing and Multimedia Applications, 2009.

4. Other Awards

- Public Administration Medal (Silver), 2021, National Day Award by the President of Republic of Singapore (awarded for outstanding contributions to computing education in Singapore)
- Public Administration Medal (Bronze), 2015, National Day Award by the President of Republic of Singapore (awarded for outstanding contributions to graduate education in Singapore)
- Lifetime Achievement Award, 2011, Kannada Association Singapore (awarded for outstanding achievements amongst the Indian community from the State of Karnataka in Singapore)