

Curriculum Vitae
Chi Keung Tang
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[[Homepage](#) | [Google Scholar](#) | [DBLP](#) | [Teaching](#) | [Research](#)]

CITIZENSHIP: Hong Kong and Australia permanent resident

EDUCATION

PhD in Computer Science (2000), The University of Southern California (**USC**)
MSc in Computer Science (1999), The University of Southern California (**USC**)
MPhil in Computer Science (1994), The Hong Kong University of Science and Technology (**HKUST**)
BSc in Computer Science (1992), The Chinese University of Hong Kong (**CUHK**)

ACADEMIC EMPLOYMENT

July 2009 – present, Professor, Dept of CSE, **HKUST**
July 2005 – June 2009, Associate Professor, Dept of CSE, **HKUST**
January 2000 – June 2005, Assistant Professor, Dept of CSE, **HKUST**

HONORS AND AWARDS

IEEE Fellow for *contributions in interactive segmentation algorithms for computer graphics applications*
Google Faculty Award for *quasi-dense 3D reconstruction from 2D uncalibrated photos*
US patent # 8564590: *imparting three-dimensional characteristics in a two-dimensional space*

PROFESSIONAL SERVICES

Associate Editor, IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**), 2009 – 2014
Editorial Board Member, International Journal on Computer Vision (**IJCV**), 2008 – 2014
Area Chair, IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**) 2021
Area Chair, European Conference on Computer Vision (**ECCV**) 2020, 2022
Area Chair, IEEE/CVF International Conference on Computer Vision (**ICCV**) 2007, 2009, 2011, 2015, 2017, 2019, 2021
Technical Papers Committee Member, **SIGGRAPH** 2011, 2012
Technical Papers Committee Member, **SIGGRAPH Asia** 2008, 2011, 2012, 2014, 2015

UNIVERSITY SERVICES

Professorial: Chair or elected/appointed member of CSE departmental substantiation and promotion committee (consecutive 10+ years), chair or member of CSE merit salary review committee (multiple times)
Student: Hall warden (over 10 years providing pastoral care to undergrads)

RESEARCH GRANTS

General Research Fund: 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2012, 2013, 2014, 2019, 2021, 2022 (sole PI; totaling over HK\$8M)
Theme-Based Research Scheme: 2019 (over HK\$7M for each co-PI)
Industrial Donation: Google, Tencent, Kuaishou (sole PI; totaling close to HK\$3M)

NOTABLE GRADUATES

UGs, PGs and Postdocs: Jiaya Jia (Professor, CUHK and Associate Editor-in-Chief, TPAMI), Yu-Wing Tai (Associate Professor, KAIST; now Research Director, Kuaishou Technology), Sai Kit Yeung (Associate Professor, HKUST), Cewu Lu (Professor, SJTU), Efstratios Tsougenis (AI Lab Manager, Hospital Authority), Qifeng Chen (Assistant Professor, HKUST)

CONFERENCE PUBLICATIONS: CVPR, ICCV, ECCV, NEURIPS

1. Qi Fan, Mattia Segù, Yu-Wing Tai, Fisher Yu, **Chi-Keung Tang**, Bernt Schiele, Dengxin Dai. Normalization Perturbation: A Simple Domain Generalization Method for Real-World Domain Shifts. arXiv preprint arXiv:2211.04393 (received high scores in a top machine learning conference under review).
2. Xinhang Liu, Jiaben Chen, Huai Yu, Yu-Wing Tai, **Chi-Keung Tang**. Unsupervised Multi-View Object Segmentation Using Radiance Field Propagation. **NeurIPS** 2022.
3. Qi Fan, Wenjie Pei, Yu-Wing Tai, **Chi-Keung Tang**. Self-Support Few-Shot Semantic Segmentation. **ECCV** 2022.
4. Qi Fan, Yu-Wing Tai, **Chi-Keung Tang**. Few-Shot Video Object Detection. **ECCV** 2022.
5. Qi Fan, **Chi-Keung Tang**, and Yu-Wing Tai. Few-shot object detection with model calibration. **ECCV** 2022.
6. Lei Ke, Martin Danelljan, Xia Li, Yu-Wing Tai, **Chi-Keung Tang**, Fisher Yu. Video Mask Refiner for High-Quality Video Instance Segmentation. **ECCV** 2022.
7. Yanan Sun, **Chi-Keung Tang**, Yu-Wing Tai. Human Instance Matting via Mutual Guidance and Multi-Instance Refinement. **CVPR** 2022.
8. Xinpeng Liu, Yong-Lu Li, Xiaoqian Wu, Yu-Wing Tai, Cewu Lu, **Chi-Keung Tang**. Interactiveness Field in Human-Object Interactions. **CVPR** 2022.
9. Lei Ke, Martin Danelljan, Xia Li, Yu-Wing Tai, **Chi-Keung Tang**, Fisher Yu. Mask Refiner for High-Quality Instance Segmentation. **CVPR** 2022.
10. Lei Ke, Xia Li, Martin Danelljan, Yu-Wing Tai, **Chi-Keung Tang**, Fisher Yu. Prototypical Cross-Attention Networks for Multiple Object Tracking and Segmentation. **NeurIPS** 2021.
11. Ho Kei Cheng, Yu-Wing Tai, **Chi-Keung Tang**. Rethinking Space-Time Networks with Improved Memory Coverage for Efficient Video Object Segmentation. **NeurIPS** 2021.
12. Lei Ke, Yu-Wing Tai, **Chi-Keung Tang**. Occlusion-Aware Video Object Inpainting. **ICCV** 2021.
13. Jihoon Chung, Cheng-hsin Wu, Hsuan-ru Yang, Yu-Wing Tai, **Chi-Keung Tang**. HAA500: Human-Centric Atomic Action Dataset with Curated Videos. **ICCV** 2021.
14. Qi Fan, Deng Ping Fan, Hua Zhu Fu, **Chi-Keung Tang**, Ling Shao, Yu-Wing Tai. Group Collaborative Learning for Co-Salient Object Detection. **CVPR** 2021.
15. Yanan Sun, **Chi-Keung Tang**, Yu-Wing Tai. Semantic Image Matting. **CVPR** 2021.
16. Yanan Sun, Guanzhi Wang, Qiao Gu, **Chi-Keung Tang**, Yu-Wing Tai. Deep Video Matting via Spatio-Temporal Alignment and Aggregation. **CVPR** 2021.
17. Ho Kei Cheng, Yu-Wing Tai, **Chi-Keung Tang**. Modular Interactive Video Object Segmentation: Interaction-to-Mask, Propagation and Difference-Aware Fusion. **CVPR** 2021.
18. Lei Ke, Yu-Wing Tai, **Chi-Keung Tang**. Deep Occlusion-Aware Instance Segmentation With Overlapping BiLayers. **CVPR** 2021.
19. Qi Fan, Lei Ke, Wenjie Pei, **Chi-Keung Tang**, Yu-Wing Tai. Commonality-Parsing Network across Shape and Appearance for Partially Supervised Instance Segmentation. **ECCV** 2020.

20. Lei Ke, Shichao Li, Yanan SUN, Yu-Wing Tai, **Chi-Keung Tang**. GSNet: Joint Vehicle Pose and Shape Reconstruction with Geometrical and Scene-aware Supervision. **ECCV 2020**.
21. Xiang Li, Tianhan Wei, Yau Pun Chen, Yu-Wing Tai, **Chi-Keung Tang**. FSS-1000: A 1000-Class Dataset for Few-Shot Segmentation. **CVPR 2020**.
22. Xuhua Huang, Jiarui Xu, Yu-Wing Tai, **Chi-Keung Tang**. Fast Video Object Segmentation With Temporal Aggregation Network and Dynamic Template Matching. **CVPR 2020**.
23. Qi Fan, Wei Zhuo, **Chi-Keung Tang**, Yu-Wing Tai. Few-Shot Object Detection With Attention-RPN and Multi-Relation Detector. **CVPR 2020**.
24. Ho Kei Cheng, Jihoon Chung, Yu-Wing Tai, **Chi-Keung Tang**. CascadePSP: Toward Class-Agnostic and Very High-Resolution Segmentation via Global and Local Refinement. **CVPR 2020**.
25. Shichao Li, Lei Ke, Kevin Pratama, Yu-Wing Tai, **Chi-Keung Tang**, Kwang-Ting Cheng. Cascaded Deep Monocular 3D Human Pose Estimation With Evolutionary Training Data. **CVPR 2020**.
26. Qiao Gu, Guanzhi Wang, Mang Tik Chiu, Yu-Wing Tai, **Chi-Keung Tang**. LADN: Local Adversarial Disentangling Network for Facial Makeup and De-Makeup. **ICCV 2019**.
27. Xiaohui Zeng, Chenxi Liu, Yu-Siang Wang, Weichao Qiu, Lingxi Xie, Yu-Wing Tai, **Chi-Keung Tang**, Alan L Yuille. Adversarial attacks beyond the image space. **CVPR 2019**. pp. 4302-4311.
28. Yongyi Lu, Yu-Wing Tai, **Chi-Keung Tang**. Attribute-Guided Face Generation Using Conditional CycleGAN. **ECCV 2018**, pp. 282-297.
29. Yongyi Lu, Shangzhe Wu, Yu-Wing Tai, **Chi-Keung Tang**. Image Generation from Sketch Constraint Using Contextual GAN. **ECCV 2018**, pp. 205-220.
30. Haoye Cai, Chunyan Bai, Yu-Wing Tai, **Chi-Keung Tang**. Deep Video Generation, Prediction and Completion of Human Action Sequences. **ECCV 2018**, pp. 366-382.
31. Shangzhe Wu, Jiarui Xu, Yu-Wing Tai, **Chi-Keung Tang**. Deep High Dynamic Range Imaging with Large Foreground Motions. **ECCV 2018**, pp. 117-132.
32. Cewu Lu, Hao Su, Yonglu Li, Yongyi Lu, Li Yi, **Chi-Keung Tang**, Leonidas J. Guibas. Beyond Holistic Object Recognition: Enriching Image Understanding With Part States. **CVPR 2018**.
33. Zheng Wu, Ruiheng Chang, Jiaxu Ma, Cewu Lu, **Chi-Keung Tang**. Annotation-Free and One-Shot Learning for Instance Segmentation of Homogeneous Object Clusters. **IJCAI 2018**: 1036-1042.
34. Cewu Lu, Yongyi Lu, **Chi-Keung Tang**. Online Video Object Detection using Association LSTM. **ICCV 2017**.
35. Hengyuan Hu, Rui Peng, Yu-Wing Tai, **Chi-Keung Tang**: Network Trimming: A Data-Driven Neuron Pruning Approach towards Efficient Deep Architectures. **CoRR abs/1607.03250 (2016)**.
36. Cewu Lu, Yongyi Lu, Hao Chen, **Chi-Keung Tang**. Square Localization for Efficient and Accurate Object Detection. **ICCV 2015**.
37. Cewu Lu, Shu Liu, Jiaya Jia, **Chi-Keung Tang**. Contour Box: Rejecting Object Proposals Without Explicit Closed Contours. **ICCV 2015**.
38. Yao Xiao, Cewu Lu, Efstratios Tsougenis, Yongyi Lu, **Chi-Keung Tang**. Complexity-Adaptive Distance Metric for Object Proposals Generation. **CVPR 2015**.

39. Yao Xiao, Efstratios Tsougenis, **Chi-Keung Tang**. Shadow Detection from Single RGB-D Images. **CVPR** 2014.
40. Cewu Lu, Jiaya Jia, **Chi-Keung Tang**. Range-Sample Depth Feature for Action Recognition. **CVPR** 2014.
41. Cewu Lu, Di Lin, Jiaya Jia, **Chi-Keung Tang**. Two-Class Weather Classification. **CVPR** 2014.
42. Dingzeyu Li, Qifeng Chen, **Chi-Keung Tang**. Motion-Aware KNN Laplacian for Video Matting. **ICCV** 2013.
43. Qifeng Chen, Dingzeyu Li, **Chi-Keung Tang**. KNN Matting. **CVPR** 2012.
44. Sai Kit Yeung, **Tai-Pang Wu**, Chi-Keung Tang, Tony F. Chan, Stanley Osher. Adequate reconstruction of transparent objects on a shoestring budget. **CVPR** 2011.
45. **Tai-Pang Wu**, Sai Kit Yeung, Jiaya Jia, Chi-Keung Tang. Quasi-dense 3D reconstruction using tensor-based multiview stereo. **CVPR** 2010.
46. Jia Chen, Lu Yuan, Chi-Keung Tang, Long Quan. Robust dual motion deblurring. **CVPR** 2008.
47. Sai Kit Yeung, Chi-Keung Tang, Pengcheng Shi, Josien P. W. Pluim, Max A. Viergever, Albert C. S. Chung, Helen C. Shen. Enforcing stochastic inverse consistency in non-rigid image registration and matching. **CVPR** 2008.
48. Sai Kit Yeung, Tai-Pang Wu, Chi-Keung Tang. Extracting smooth and transparent layers from a single image. **CVPR** 2008.
49. Zhouchen Lin, Junfeng He, Xiaoou Tang, **Chi-Keung Tang**. Limits of Learning-Based Superresolution Algorithms. **ICCV** 2007.
50. Heung-Sun Ng, Tai-Pang Wu, Chi-Keung Tang. Surface-from-Gradients with Incomplete Data for Single View Modeling. **ICCV** 2007.
51. Yu-Wing Tai, Michael S. Brown, **Chi-Keung Tang**. Robust Estimation of Texture Flow Distortion via Dense Feature Sampling. **CVPR** 2007.
52. Jia Chen, **Chi-Keung Tang**. Spatio-Temporal Markov Random Field for Video Denoising. **CVPR** 2007.
53. Yu-Wing Tai, Wai-Shun Tong, **Chi-Keung Tang**. Perceptually-Inspired and Edge-Directed Color Image Super-Resolution. **CVPR** 2006.
54. Tai-Pang Wu, **Chi-Keung Tang**. Visible Surface Reconstruction from Normals with Discontinuity Consideration. **CVPR** 2006.
55. Tai-Pang Wu, **Chi-Keung Tang**. Dense Photometric Stereo by Expectation Maximization. **ECCV** 2006.
56. Jiaya Jia, **Chi-Keung Tang**. Eliminating Structure and Intensity Misalignment in Image Stitching. **ICCV** 2005.
57. Tai-Pang Wu, **Chi-Keung Tang**. A Bayesian Approach for Shadow Extraction from a Single Image. **ICCV** 2005.
58. Tai-Pang Wu, **Chi-Keung Tang**. Dense Photometric Stereo Using a Mirror Sphere and Graph Cut. **CVPR** 2005.

59. Kam-Lun Tang, **Chi-Keung Tang**, Tien-Tsin Wong. Dense Photometric Stereo Using Tensorial Belief Propagation. **CVPR** 2005.
60. Yu-Wing Tai, Jiaya Jia, **Chi-Keung Tang**. Local Color Transfer via Probabilistic Segmentation by Expectation-Maximization. **CVPR** 2005.
61. Jiaya Jia, Tai-Pang Wu, Yu-Wing Tai, **Chi-Keung Tang**. Video Repairing: Inference of Foreground and Background Under Severe Occlusion. **CVPR** 2004.
62. Jiaya Jia, Jian Sun, **Chi-Keung Tang**, Heung-Yeung Shum. Bayesian Correction of Image Luminance with Spatial Consideration. **ECCV** 2004.
63. Tai-Pang Wu, **Chi-Keung Tang**. Separating Specular, Diffuse, and Subsurface Scattering Reflectances from Photometric Images. **ECCV** 2004.
64. Jiaya Jia, **Chi-Keung Tang**. Image Registration with Global and Local Luminance Alignment. **ICCV** 2003.
65. Jiaya Jia, **Chi-Keung Tang**. Image Repairing: Robust Image Synthesis by Adaptive ND Tensor Voting. **CVPR** 2003.
66. Wai-Shun Tong, **Chi-Keung Tang**. ROD-TV: Reconstruction on demand by Tensor Voting. **CVPR** 2003.
67. Wai-Shun Tong, **Chi-Keung Tang**, Gerard Medioni. First Order Tensor Voting, and Application to 3-D Scale Inference. **CVPR** 2001.
68. Wai-Shun Tong, **Chi-Keung Tang**, Gerard Medioni. Epipolar Geometry Estimation for Non-Static Scenes by 4D Tensor Voting. **CVPR** 2001.
69. Yin Li, **Chi-Keung Tang**, Heung-Yeung Shum. Efficient Dense Depth Estimation from Dense Multi-perspective Panoramas. **ICCV** 2001.
70. **Chi-Keung Tang**, Gerard Medioni, Mi Suen Lee. Epipolar Geometry Estimation by Tensor Voting in 8D. **ICCV** 1999.
71. **Chi-Keung Tang**, Gerard Medioni. Robust Estimation of Curvature Information from Noisy 3D Data for Shape Description. **ICCV** 1999.
72. **Chi-Keung Tang**, Gerard Medioni. Integrated Surface, Curve and Junction Inference from Sparse 3-D Data Sets. **ICCV** 1998.

Journal Publications: TPAMI, SIGGRAPH/TOG

1. Cewu Lu, Di Lin, Jiaya Jia, **Chi-Keung Tang**. Two-class Weather Classification. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)* 39(12): 2510-2524 (2017).
2. Sai-Kit Yeung, Tai-Pang Wu, **Chi-Keung Tang**, Tony F. Chan, Stanley Osher. Normal Estimation of a Transparent Object Using a Video. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)* 37(4): 890-897 (2015).
3. Qifeng Chen, Dingzeyu Li, **Chi-Keung Tang**. KNN Matting. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)* 35(9): 2175-2188 (2013).
4. Tai-Pang Wu, Sai-Kit Yeung, Jiaya Jia, **Chi-Keung Tang**, Gerard Medioni. A Closed-Form Solution to Tensor Voting: Theory and Applications. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)* 34(8): 1482-1495 (2012).

5. Lap-Fai Yu, Sai-Kit Yeung, **Chi-Keung Tang**, Demetri Terzopoulos, Tony F. Chan, Stanley Osher. Make it Home: Automatic Optimization of Furniture Arrangement. *ACM Transactions on Graphics (TOG)*, 2011 30(4): 86 (2011).
6. Sai-Kit Yeung, **Chi-Keung Tang**, Michael S. Brown, Sing Bing Kang. Matting and Compositing of Transparent Objects. *ACM Transactions on Graphics (TOG)* 30(1): 2:1-2:13 (2011).
7. Heung-Sun Ng, Tai-Pang Wu, **Chi-Keung Tang**. Surface-From-Gradients Without Discrete Integrability Enforcement: A Gaussian Kernel Approach. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)* 32(11): 2085-2099 (2010).
8. Tai-Pang Wu, Philip Chi-Wing Fu, Sai-Kit Yeung, Jiaya Jia, **Chi-Keung Tang**. Modeling and Rendering of Impossible Figures. *ACM Transactions on Graphics (TOG)*. Vol. 29, no. 2, 13, 2010.
9. Tai-Pang Wu, **Chi-Keung Tang**. Photometric Stereo via Expectation Maximization. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*. Vol. 32, no. 3, 2010.
10. Zhouchen Lin, Junfeng He, Xiaoou Tang, Chi-Keung Tang. Fast, automatic and fine-grained tampered JPEG image detection via DCT coefficient analysis. *Pattern Recognition* 42(11): 2492-2501 (2009).
11. Jia Chen, **Chi-Keung Tang**, Jue Wang. NoiseBrush: Interactive High Quality Image-Noise Separation. *ACM Transactions on Graphics (TOG)*. Vol. 28, no. 5, 2009.
12. Qi Shan, Zhaorong Li, Jiaya Jia, **Chi-Keung Tang**. Fast Image/Video Upsampling. *ACM Transactions on Graphics (TOG)* 27(5): 153 (2008).
13. Tai-Pang Wu, Jian Sun, **Chi-Keung Tang**, Heung-Yeung Shum. Interactive normal reconstruction from a single image. *ACM Transactions on Graphics (TOG)* 27(5): 119 (2008).
14. Yu-Wing Tai, Michael S. Brown, Chi-Keung Tang, Heung-Yeung Shum. Texture amendment: reducing texture distortion in constrained parameterization. *ACM Transactions on Graphics (TOG)* 27(5): 136 (2008).
15. Jiaya Jia, **Chi-Keung Tang**. Image Stitching Using Structure Deformation. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*. Vol 30, no. 4, 2008.
16. Tai-Pang Wu, Jian Sun, **Chi-Keung Tang**, Heung-Yeung Shum. Interactive Normal Reconstruction from a Single Image. *ACM Transactions on Graphics (TOG)*. vol. 27, no. 5, 2008.
17. Zhouchen Lin, Junfeng He, Xiaoou Tang, **Chi-Keung Tang**. Limits of Learning-Based Superresolution Algorithms. *International Journal on Computer Vision (IJCV)*.
18. Yu-Wing Tai, Jiaya Jia, **Chi-Keung Tang**. Soft Color Segmentation and its Applications. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*. Vol. 29, no. 9, 2007.
19. Tai-Pang Wu, **Chi-Keung Tang**, Michael S. Brown, Heung-Yeung Shum. ShapePalettes: Interactive Normal Transfer via Sketching. *ACM Transactions on Graphics (TOG)*. Vol. 26, no. 3, 2007.
20. Tai-Pang Wu, **Chi-Keung Tang**, Michael S. Brown, Heung-Yeung Shum. Natural Shadow Matting. *ACM Transactions on Graphics (TOG)*. Vol. 26, no. 2, 2007.
21. Jiaya Jia, Jian Sun, **Chi-Keung Tang**, Heung-Yeung Shum. Drag-and-Drop Pasting. *ACM Transactions on Graphics (TOG)*. Vol. 25, no. 3, 2006, pp. 631–636.
22. Tai-Pang Wu, Kam-Lun Tang, **Chi-Keung Tang**, Tien-Tsin Wong. Dense Photometric Stereo: A Markov Random Field Approach. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, vol. 28, no. 11, 2006, pp. 1830–1846.

23. Jiaya Jia, Yu-Wing Tai, Tai-Pang Wu, **Chi-Keung Tang**. Video Repairing Under Variable Illumination Using Cyclic Motions. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, vol. 28, no. 5, 2006, pp. 832-839.
24. Wai-Shun Tong, **Chi-Keung Tang**. Robust Estimation of Adaptive Tensors of Curvature by Tensor Voting. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, vol. 27, no. 3, March 2005, pp. 434-449.
25. Jiaya Jia, **Chi-Keung Tang**. Tensor Voting for Image Correction by Global and Local Intensity Alignment. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, vol. 27, no. 1, January 2005, pages 36-50.
26. Wai-Shun Tong, **Chi-Keung Tang**, Gerard Medioni. Simultaneous Two-View Epipolar Geometry Estimation and Motion Segmentation by 4D Tensor Voting. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, vol. 26, no. 9, September 2004, pages 1167-1184.
27. Yin Li, Jian Sun, **Chi-Keung Tang**, Heung-Yeung Shum. Lazy Snapping. *ACM Transactions on Graphics (TOG)*. Vol. 23, no. 3, 2004, pages 303-308.
28. Jian Sun, Jiaya Jia, **Chi-Keung Tang**, Heung-Yeung Shum. Poisson Matting. *ACM Transactions on Graphics (TOG)*. Vol. 23, no. 3, 2004, pages 315-321.
29. Jiaya Jia, **Chi-Keung Tang**. Inference of Segmented Color and Texture Information by Tensor Voting. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, vol. 26, no. 6, June 2004, pp. 771-786.
30. Wai-Shun Tong, **Chi-Keung Tang**, Philippos Mordohai, Gerard Medioni. First Order Augmentation to Tensor Voting for Boundary Inference and Multiscale Analysis in 3D. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, vol. 26, no. 5, May 2004, pp. 594-611.
31. Heung-Yeung Shum, Jian Sun, Shuntaro Yamazaki, Yin Li, **Chi-Keung Tang**. Pop-Up Lightfield: an Interactive Image-Based Modeling and Rendering System. *ACM Transactions on Graphics (TOG)*, vol. 23, no. 2, April 2004, pages 143-162.
32. Yin Li, Heung-Yeung Shum, **Chi-Keung Tang**, Richard Szeliski. Stereo Reconstruction from Multiperspective Panoramas. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, vol. 26, no. 1, January 2004, pp. 45-62.
33. Chi-Wing Fu, Tien-Tsin Wong, Wai-Shun Tong, **Chi-Keung Tang**, Andrew J. Hanson. Binary-Space-Partitioned Images for Resolving Image-based Visibility. *IEEE Transactions on Visualization and Computer Graphics (TVCG)*, vol. 10, no. 1, January-February 2004, pp. 58-71.
34. **Chi-Keung Tang**, Gerard Medioni. A Curvature-Augmented Tensorial Framework for Shape Inference from Noisy, 3-D Data. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, vol. 24, no. 6, June 2002.
35. **Chi-Keung Tang**, Gerard Medioni, Mi Suen Lee. N-Dimensional Tensor Voting, and Application to Epipolar Geometry Estimation. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, vol. 23, no. 8, August 2001, pp. 829-844.
36. **Chi-Keung Tang**, Gerard Medioni. Inference of Integrated Surface, Curve, and Junction Descriptions from Sparse 3-D Data. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, vol. 20, no. 11, November 1998, pp. 1206-1233.