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Current Positions

Associate Professor	Department of Computer Science, Hong Kong Baptist University, Hong Kong
Associate Director	HKBU Motion Capture and Visualization Laboratory
Director	Lumos Arts and Technology Limited

Education Background

Nanyang Technological University, Singapore <u>Ph.D.</u> , Dissertation: “Visual Data Processing over Structured Dictionaries with Applications in Light Field Imaging,” advised by Assoc. Prof. Lap-Pui Chau	2011-2016
Huazhong University of Science and Technology, Wuhan, China <u>M.Eng.</u> , Major: Optoelectronic Information Engineering, advised by Assoc. Prof Yubin Wu	2008-2011
Huazhong University of Science and Technology, Wuhan, China <u>B.Sc.</u> , Major: Opto-Information Science and Technology	2004-2008

Work Experience

Hong Kong Baptist University, Hong Kong Associate Professor	Since 2025
Hong Kong Baptist University, Hong Kong Assistant Professor	2019-2025
OmniVision Technologies, Singapore Senior Algorithm Engineer	2019
ST Engineering-NTU Corporate Laboratory, Singapore Post-doctoral Research Fellow	2015-2019

Research Interests

- **Computational Photography** (Light fields, Hyperspectral Imaging, HDR+)
- **Multimedia Capture, Reconstruction and Generative AI** (3D, Motion, and Digital Human)
- **AI for Art Tech** (Visualization, Performing Arts, and Movies)

Funded Projects

- *Systems and Algorithms for 3D Digital Media Content Creation with Applications in Journalism and Art Tech*, Guangdong and Hong Kong Universities “1+1+1” Cross-Campus Research Collaboration Scheme, (as P-I, Funded amount: 2,000,000 RMB), May, 2025–2027
- *Lumos Arts and Technology Limited*, Technology Start-up Support Scheme for Universities (TSSSU-O Track) 2024/2026, Innovation and Technology Commission, (as P-I, Funded amount: 1,109,491 HKD), April, 2024–2026 (The start up later secured HK\$1.3 million funding through the Hong Kong Science and Technology Park’s Incubation Programme)
- *Action Recognition in Extremely Crowded Public Spaces*, Collaboration Project with Hong Kong Applied Science and

Technology Research Institute, (as P-I, Funded amount: 794,000 HKD), Jan. 2024–Dec. 2024

- *Building Platform Technologies for Symbiotic Creativity in Hong Kong*, Theme-based Research Scheme (T45-205/21-N), Research Grants Council, (as Co-I, Funded amount: 60,936,000 HKD), Nov. 2021– Oct. 2026
- *Future Cinema Systems: Next Generation Art Technologies* (ITS/326/21FP), ITF, (as Co-I, Funded amount: 35,424,462 HKD), Nov. 2022- Oct. 2024
- *Towards Distributed Immersive Tele-presence – Exploring Distributed Imaging Modalities for Dynamic Human Shape Modelling*, Tier-2 Start-up Grant (RC-OFSGT2/20-21), HKBU Research Committee, (as P-I, Funded amount: 479,340 HKD), Nov. 2021 – Oct. 2024

Teaching

- **Computing for Creatives II** (COMP2037) @HKBU: 23-S1, 24-S1
- **Computing for Creatives I** (COMP1015) @HKBU: 22-S1, 23-S1, 2024-S1
- **Computer Vision and Pattern Recognition** (COMP4026) @HKBU: 21-S1
- **Data-Drive Visualization for the Web** (ITEC2016) @HKBU: 20-S1, 21-S1, 22-S1
- **Interactive Computer Graphics** (COMP4025) @HKBU: 19-S2, 20-S2, 21-S2, 22-S2, 23-S2, 24-S2

Professional Services

University Administration Services

Management Committee Member for the *BASc (Hons) in Arts and Technology* Programme, HKBU (2022-)

Associate Director for the *HKBU Motion Capture and Visualization Laboratory* (2022-)

Editorial Services

Associate Editor for *The Visual Computer Journal, Springer (TV CJ)* (2020-)

Professional Membership

IEEE Senior Member (2024-)

ACM Member

Selected Publications

Peer-Reviewed Journals (*corresponding author, # equal contributions)

1. Junkun Jiang, **Jie Chen***, Ho Yin Au, Jingyu Xiang, “Learning Context-Adaptive Motion Priors for Masked Motion Diffusion Models with Efficient Kinematic Attention Aggregation,” accepted for publication in *IEEE Transactions on Multimedia*, 2026 (*arXiv:2603.07697*)
2. Junkun Jiang, **Jie Chen***, Ho Yin Au, Minyuan Chen, Wei Xue, Yike Guo, “Every Angle Is Worth A Second Glance: Mining Kinematic Skeletal Structures from Multi-view Joint Cloud,” *IEEE Transactions on Visualization and Computer Graphics*, vol. 31, no. 10, pp. 7337-7349, 2025
3. Ho Yin Au, **Jie Chen***, Junkun Jiang, and Yi-Ke Guo, “ReChoreoNet: Repertoire-based Dance Re-choreography with Music-conditioned Temporal and Style Clues,” *Machine Intelligence Research*, vol. 21, no. 4, pp. 771-781, 2024
4. Wenpeng Xing, **Jie Chen***, and Yike Guo, “Robust Local Light Field Synthesis via Occlusion-aware Sampling and Deep Visual Feature Fusion,” *Machine Intelligence Research*, Springer, vol. 20, no. 3, pp. 408-420, 2023
5. Wenpeng Xing, **Jie Chen***, Zaifeng Yang, Qiang Wang, and Yike Guo, “Scale-Consistent Fusion: from Heterogeneous Local Sampling to Global Immersive Rendering,” *IEEE Transactions on Image Processing*, vol. 31, pp. 6109-6123, 2022
6. **Jie Chen***, Zaifeng Yang, Tsz Nam Chan, Hui Li, Junhui Hou, and Lap-Pui Chau, “Attention-Guided Progressive

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- Neural Texture Fusion for High Dynamic Range Image Restoration,” *IEEE Transactions on Image Processing*, vol. 31, pp. 2661–2672, 2022
7. Jing Jin, Junhui Hou, **Jie Chen**, Huanqiang Zeng, Sam Kwong, and Jingyi Yu, “Deep coarse-to-fine dense light field reconstruction with flexible sampling and geometry-aware fusion,” *IEEE Transactions Pattern Analysis and Machine Intelligence*, vol. 44, no. 4, pp. 1819-1836, 2022
 8. Yike Guo, Qifeng Liu, **Jie Chen**, Wei Xue, Henrik Jensen, Fernando Rosas, Jeffrey Shaw, Xing Wu, Jiji Zhang, and Jianliang Xu, “Pathway to Future Symbiotic Creativity,” *arXiv:2209.02388*, 2022
 9. Mantang Guo, Junhui Hou, Jing Jin, **Jie Chen**, and Lap-Pui Chau, “Deep Spatial-angular Regularization for Light Field Imaging, Denoising, and Super-resolution,” *IEEE Transactions on Pattern Analysis and Machine Intelligence*, vol. 44, no. 10, pp. 6094-6110, 2021
 10. Zhiyu Zhu, Junhui Hou, **Jie Chen**, Huanqiang Zeng, and Jiantao Zhou, “Hyperspectral image super-resolution via deep progressive zero-centric residual learning,” *IEEE Transactions on Image Processing*, vol. 30, pp. 1423–1438, 2021
 11. Henry W. F. Yeung, Junhui Hou, Xiaoming Chen, **Jie Chen**, Zhibo Chen, and Yuk Ying Chung, “Light Field Spatial Super-Resolution Using Deep Spatial-Angular Interleaved CNN,” *IEEE Transactions on Image Processing*, vol. 28, no. 5, pp. 2319-2330, 2019
 12. **Jie Chen**, Cheen-Hau Tan, Junhui Hou, Lap-Pui. Chau, and He Li, “Robust Video Content Alignment and Compensation for Clear Vision Through the Rain,” *arXiv:1804.09555*, 2019
 13. **Jie Chen**, Junhui Hou, and Lap-Pui. Chau, “Light Field Denoising via Anisotropic Parallax Analysis in a CNN Framework,” *IEEE Signal Processing Letters*, vol. 25, no. 9, pp. 1403-1407, 2018
 14. **Jie Chen**, Junhui Hou, Yun Ni, and Lap-Pui. Chau, “Accurate Light Field Depth Estimation with Superpixel Regularization over Partially Occluded Regions,” *IEEE Transactions on Image Processing*, vol. 27, no. 10, pp. 4889-4900, 2018
 15. Yun Ni, **Jie Chen**, and Lap-Pui Chau, “Reflection Removal On Single Light Field Capture With Focus Manipulation,” in *IEEE Transactions on Computational Imaging*, vol. 4, no. 4, pp. 562-572, 2018
 16. **Jie Chen**, Junhui Hou, and Lap-Pui Chau, “Light Field Compression with Disparity Guided Sparse Coding based on Structural Key Views,” *IEEE Transactions on Image Processing*, vol. 27, no. 1, pp. 314-324,
 17. Junhui Hou, **Jie Chen**, and Lap-Pui Chau, “Light Field Image Compression Based on Bi-Level View Compensation with Rate Distortion Optimization,” *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 29, no. 2, pp. 517-530,
 18. Shaohui Mei, Junhui Hou, **Jie Chen**, Lap-Pui Chau, and Qian Du, “Simultaneous Spatial and Spectral Low-Rank Representation of Hyperspectral Images for Classification,” *IEEE Transactions on Geoscience and Remote Sensing*, vol. 56, no. 5, pp. 2872-2886, 2018
 19. **Jie Chen** and Lap-Pui Chau, “Light Field Compressed Sensing Over a Disparity-Aware Dictionary,” *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 27, no. 4, pp. 855-865, 2017
 20. **Jie Chen** and Lap-Pui Chau, “Multiscale Dictionary Learning via Cross-Scale Cooperative Learning and Atom Clustering for Visual Signal Processing,” *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 25, no. 9, pp. 1457-1468, 2015 [pdf]
 21. **Jie Chen** and Lap-Pui Chau, “A Rain Pixel Recovery Algorithm for Videos With Highly Dynamic Scenes,” *IEEE Transactions on Image Processing*, vol. 23, no. 3, pp. 1097-1104, 2014

Peer Reviewed Conference Publications (*corresponding author, # equal contributions)

1. Junkun Jiang, Ho Yin Au, Jingyu Xiang, **Jie Chen***, “LaMoGen: Language to Motion Generation Through LLM-Guided Symbolic Inference,” accepted by *IEEE/CVF Conference on Computer Vision and Pattern Recognition*, 2026
2. Ruiqi Zhang, Jiacheng Wu, **Jie Chen***, “Mesh Splatting for End-to-end Multiview Surface Reconstruction,” accepted

by *International Conference on Learning Representations*, 2026

3. Ho Yin Au, Junkun Jiang, **Jie Chen***, “SOSControl: Enhancing Human Motion Generation through Saliency-Aware Symbolic Orientation and Timing Control,” *AAAI Conference on Artificial Intelligence*, vol 40, no. 24, pp. 19632-19639, 2026
4. Jiacheng WU, Ruiqi Zhang, **Jie Chen***, “Deep Inverse Shading: Consistent Albedo and Surface Detail Recovery via Generative Refinement”, *AAAI Conference on Artificial Intelligence*, Vol. 40, No. 13, pp. 10655-10663, 2026
5. Chenhong Zhou, **Jie Chen***, Zaifeng Yang, “SAOT: An Enhanced Locality-Aware Spectral Transformer for Solving PDEs”, *AAAI Conference on Artificial Intelligence*, Vol. 40, No. 34, pp. 28928-28936, 2026
6. Ho Yin Au, **Jie Chen***, Junkun Jiang, Jingyu Xiang, “Deep Compositional Phase Diffusion for Long Motion Sequence Generation,” *Annual Conference on Neural Information Processing Systems (NeurIPs)*, as oral, 2025
7. Xingxing Yang, **Jie Chen***, Zaifeng Yang, “Unraveling Metameric Dilemma for Spectral Reconstruction: A High-Fidelity Approach via Semi-Supervised Learning,” *Annual Conference on Neural Information Processing Systems (NeurIPs)*, 2025
8. Ho Yin Au#, Sheng Wang#, Hongyun Sheng#, Junkun Jiang, **Jie Chen***, “MoRAL: Interactive Motion Restyling via Posing and Tempo LoRAs,” *SIGGRAPH Asia Technical Communications*, pp. 1-4, 2025
9. Chenhong Zhou, **Jie Chen***, Zaifeng Yang, Ching Eng Png, “Dual-Balancing for Physics-Informed Neural Networks,” *International Joint Conference on Artificial Intelligence (IJCAI)*, pp. 797-805, 2025
10. Jiacheng Wu#, Ruiqi Zhang#, **Jie Chen***, Hui Zhang, “Fast and Physically-based Neural Explicit Surface for Relightable Human Avatars,” *IEEE International Conference on Multimedia and Expo*, pp. 1-6, 2025
11. Xingxing Yang, **Jie Chen***, Zaifeng Yang, “Learning Physics-informed Color-aware Transforms for Low-light Image Enhancement,” *IEEE International Conference on Multimedia and Expo*, pp. 1-6, 2025
12. Shuwen Niu, Junkun Jiang, **Jie Chen***, “Efficient Real-time Fine-Grained Action Recognition over a Progressive and Hierarchical Classification Framework,” *IEEE International Symposium on Circuits and Systems*, pp. 1-5, 2025
13. Wenpeng Xing, **Jie Chen***, Zaifeng Yang, Xin Tong, Changting Lin, Meng Han, “NCDD-Diffusion: Neural Contextual and Directional Inversion for Novel View Synthesis through Diffusion Models,” *IEEE International Conference on Acoustics, Speech and Signal Processing*, pp. 1-5, 2025
14. Qingsong Yan, Qiang Wang, Kaiyong Zhao, **Jie Chen**, Bo Li, Xiaowen Chu, Fei Deng, “SphereFusion: Efficient Panorama Depth Estimation via Gated Fusion”, *International Conference on 3D Vision*, pp. 1-1, 2025
15. Chenhong Zhou, **Jie Chen***, Zaifeng Yang, Alexander Matyasko, Ching Eng Png, “Enhanced Physics-Informed Neural Networks with Optimized Sensor Placement via Multi-Criteria Adaptive Sampling,” *International Joint Conference on Neural Networks*, pp. 1-6, 2024
16. Junkun Jiang, Ho Yin Au, **Jie Chen***, Jingyu Xiang and Mingyuan Chen, “Motion Part-Level Interpolation and Manipulation over Automatic Symbolic Labanotation Annotation,” *International Joint Conference on Neural Networks*, pp. 1-8, 2024
17. Xingxing Yang, **Jie Chen***, Zaifeng Yang, “Hyperspectral Image Reconstruction via Combinatorial Embedding of Cross-Channel Spatio-Spectral Clues,” *AAAI Conference on Artificial Intelligence*, vol. 44, no. 10, pp. 6094-6110, 2024
18. Qingsong Yan, Qiang WANG, Kaiyong Zhao, **Jie Chen**, Bo Li, Xiaowen Chu, Fei Deng, “CF-NeRF: Camera Parameter Free Neural Radiance Fields with Incremental Learning,” *AAAI Conference on Artificial Intelligence*, vol. 38, no. 6, pp. 6440-6448, 2024
19. Junkun Jiang, **Jie Chen***, “Exploring Latent Cross-Channel Embedding for Accurate 3D Human Pose Reconstruction in a Diffusion Framework,” *IEEE International Conference on Acoustics, Speech, & Signal Processing*, pp. 1-5, 2024
20. Ruiqi Zhang, **Jie Chen***, “Mesh-Centric Gaussian Splatting for Human Avatar Modelling with Real-time Dynamic Mesh Reconstruction,” *ACM International Conference on Multimedia*, pp. 1-10, 2024
21. Chenhong Zhou, Xiaorui Zhang, Meng Gao, Shanshan Liu, Yike Guo, **Jie Chen**, “Long-lead forecasts of wintertime

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- air stagnation index in southern China using oceanic memory effects,” *International Conference on Learning Representations Workshops*, pp. 1-1, 2023
22. Wenpeng Xing, **Jie Chen***, “CasTensorRF: Cascaded Tensorial Radiance Fields for Novel View Synthesis,” *International Conference on Multimedia & Expo*, pp. 2183-2188, 2023
 23. Ruiqi Zhang, **Jie Chen***, Qiang Wang, “Explicifying Neural Implicit Fields for Efficient Dynamic Human Avatar Modeling via a Neural Explicit Surface,” *ACM International Conference on Multimedia*, pp. 2183-2188, 2023
 24. Xingxing Yang, **Jie Chen***, Zaifeng Yang, “Cooperative Colorization: Exploring Latent Cross-Domain Priors for NIR Image Spectrum Translation,” *ACM International Conference on Multimedia*, pp. 2409-2417, 2023
 25. Wenpeng Xing, **Jie Chen***, Ka Chun Cheung, Simon See, “IRCasTRF: Inverse Rendering by Optimizing Cascaded Tensorial Radiance Fields, Lighting, and Materials from Multi-view Images,” *ACM International Conference on Multimedia*, pp. 2409-2417, 2023
 26. Zhen Ye, Wei Xue, Xu Tan, **Jie Chen**, Qifeng Liu, Yike Guo, “CoMoSpeech: One-Step Speech and Singing Voice Synthesis via Consistency Model,” *ACM International Conference on Multimedia*, pp. 1831-1839, 2023
 27. Xingxing Yang, **Jie Chen***, Zaifeng Yang, “Multi-scale Progressive Feature Embedding for Accurate NIR-to-RGB Spectral Domain Translation.” *IEEE International Conference on Visual Communications and Image Processing*, PP. 1-5, 2023
 28. Ruiqi Zhang, **Jie Chen***, “NDF: Neural Deformable Fields for Dynamic Human Modelling,” in *Proc. European Conference on Computer Vision*, pp. 37-52, 2022
 29. Wenpeng Xing, **Jie Chen***, “Temporal-MPI: Enabling Multi-Plane Images for Dynamic Scene Modelling via Temporal Basis Learning”, in *Proc. European Conference on Computer Vision*, pp. 323-338, 2022
 30. Ho Yin Au, **Jie Chen***, Junkun Jiang, and Yike Guo, “ChoreoGraph: Music-conditioned Automatic Dance Choreography over a Style and Tempo Consistent Dynamic Graph,” in *Proc. ACM International Conference on Multimedia*, pp. 3917-3925, 2022
 31. Junkun Jiang, **Jie Chen***, and Yike Guo, “A Dual-Masked Auto-Encoder for Robust Motion Capture with Spatial-Temporal Skeletal Token Completion,” in *Proc. ACM International Conference on Multimedia*, pp. 5123-5131, 2022
 32. Wenpeng Xing, **Jie Chen***, “MVSPlenOctree: Fast and Generic Reconstruction of Radiance Fields in PlenOctree from Multi-view Stereo,” in *Proc. ACM International Conference on Multimedia*, pp. 5114-5122, 2022
 33. Wenpeng Xing, **Jie Chen***, “Nex+: Novel View Synthesis with Neural Regularisation over Multi-Plane Images,” in *Proc. IEEE International Conference on Acoustics, Speech, & Signal Processing*, pp. 1581–1585, 2022
 34. Zaifeng Yang, Yubo Hou, Zhenghua Chen, Le Zhang, and **Jie Chen**, “A Multi-Stage Progressive Learning Strategy for COVID-19 Diagnosis using Chest Computed Tomography with Imbalanced Data,” In *Proc. IEEE International Conference on Acoustics, Speech, & Signal Processing*, pp. 8578-8582, 2021
 35. Mantang Guo, Junhui Hou, Jing Jin, **Jie Chen**, and Lap-Pui Chau, “Deep spatial-angular regularization for compressive light field reconstruction over coded apertures,” In *Proc. European Conference on Computer Vision*, pp. 278–294, 2020
 36. **Jie Chen**, Lap-Pui Chau, Junhui Hou, “Surface Consistent Light Field Extrapolation over Stratified Disparity and Spatial Granularities”, In *Proc. IEEE International Conference on Multimedia & Expo*, pp. 1-6, 2020
 37. Jing Jin, Junhui Hou, **Jie Chen**, and Sam Kwong, “Light Field Spatial Super-resolution via Deep Combinatorial Geometry Embedding and Structural Consistency Regularization”, In *Proc. IEEE Conference on Computer Vision and Pattern Recognition*, pp. 2260-2269, 2020
 38. Guo, Jing Jin, Junhui Hou, and **Jie Chen**, “Accurate Light Field Depth Estimation via an Occlusion-aware Network”, In *Proc. IEEE International Conference on Multimedia & Expo*, pp. 1-6, 2020
 39. **Jie Chen**, Cheen-Hau Tan, Lap-Pui Chau, “Haze Removal with Fusion of Local and Non-local Statistics”, In *Proc. IEEE Symposium on Circuits and Systems*, pp. 1-5, 2020

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40. Jing Jin, Junhui Hou, **Jie Chen**, Sam Kwong, and Jingyi Yu, "Light field super-resolution via attention-guided fusion of hybrid lenses," In *Proc. ACM International Conference on Multimedia*, pp. 193-201, 2020
 41. Henry Yeung, Junhui Hou, **Jie Chen**, Yuk Ying Chung, and Xiaoming Chen, "Fast Light Field Reconstruction With Deep Coarse-To-Fine Modeling of Spatial-Angular Clues," In *Proc. European Conference on Computer Vision*, pp. 137-152, 2018
 42. **Jie Chen**, Cheen-Hau Tan, Junhui Hou, Lap-Pui Chau, and He Li, "Robust Video Content Alignment and Compensation for Rain Removal in a CNN Framework," In *Proc. IEEE Conference on Computer Vision and Pattern Recognition spotlight (6.6%)*, 2018
 43. Shengyu Nan, **Jie Chen**, Lap-Pui Chau, and Kemao Qian, "Learning-Based Parallax Transfer on Multispectral Light Field," In *Proc. IEEE International Conference on Digital Signal Processing*, pp. 1-5, 2018
 44. Cheen-Hau Tan, **Jie Chen**, Yun Ni, Lap-Pui Chau, and Ling Min Soh, "Vision-Based Rain Gauge for Dynamic Scenes," In *Proc. IEEE International Conference on Digital Signal Processing*, pp. 1-5, 2018
 45. Jing Jin, Junhui Hou, **Jie Chen**, Henry Yeung, and Sam Kwong, "Light Field Spatial Super-resolution via CNN Guided by A Single High-resolution RGB Image," In *Proc. IEEE International Conference on Digital Signal Processing*, pp. 1-5, 2018
 46. **Jie Chen**, Yun Ni, Junhui Hou, and Lap-Pui Chau, "Light Field Scene Flow with Occlusion Regularization," In *Proc. Asia-Pacific Signal and Information Processing Association Annual Summit and Conference*, pp. 1-6, 2017
 47. Cheen-Hau Tan, **Jie Chen**, and Lap-Pui Chau, "Edge-preserving rain removal for light field images based on RPCA," In *Proc. IEEE International Conference on Digital Signal Processing*, pp. 1-5, 2017
 48. Yun Ni, **Jie Chen**, and Lap-Pui Chau, "Reflection removal based on single light field capture," In *Proc. IEEE International Symposium on Circuits and Systems*, pp. 1-4, 2017
 49. **Jie Chen**, Lap-Pui Chau and He Li, "Light field depth from multi-scale particle filtering," In *Proc. Asia-Pacific Signal and Information Processing Association Annual Summit and Conference*, pp. 1-6, 2016
 50. Junhui Hou, **Jie Chen**, Lap-Pui Chau, and Y. He, "Sparse Two-Dimensional Singular Value Decomposition," In *Proc. IEEE International Conference on Multimedia & Expo*, pp. 1-6, 2016
 51. **Jie Chen**, and Lap-Pui Chau. "Heavy Haze Removal in A Learning Framework," In *Proc. IEEE International Symposium on Circuits and Systems*, pp. 1590-1593, 2015
 52. **Jie Chen**, and Lap-Pui Chau. "A Fast Adaptive Guided Filtering Algorithm for Light Field Depth Interpolation," In *Proc. IEEE International Symposium on Circuits and Systems*, pp. 2281-2284, 2014
 53. **Jie Chen**, Alexander Matyasko, and Lap-Pui Chau, "A Light Field Sparse Representation Structure and Its Fast Coding Technique," In *Proc. IEEE International Conference on Digital Signal Processing*, pp. 214-218, 2014
 54. Cheen-Hau Tan, **Jie Chen**, and Lap-Pui Chau, "Dynamic scene rain removal for moving cameras," In *Proc. IEEE International Conference on Digital Signal Processing*, pp. 372-376, 2014
 55. **Jie Chen**, and Lap-Pui Chau, "Rain removal from dynamic scene based on motion segmentation," In *Proc. IEEE International Symposium on Circuits and Systems*, pp. 2139-2142, 2013
 56. **Jie Chen**, and Lap-Pui Chau, "An Enhanced Window-Variant Dark Channel Prior for Depth Estimation Using Single Foggy Image," In *Proc. IEEE International Conference on Image Processing*, pp. 3508-3512, 2013
 57. Shuigen Wang, Chenwei Deng, Weisi Lin, Baojun Zhao, and **Jie Chen**, "A novel SVD-based image quality assessment metric," In *Proc. IEEE International Conference on Image Processing*, pp. 423-426, 2013
 58. Junhui Hou, Lap-Pui Chau, Ying He, **Jie Chen**, and Nadia Magnenat-Thalmann, "Human motion capture data recovery via trajectory-based sparse representation," In *Proc. IEEE International Conference on Image Processing*, pp. 709-713, 2013