**Publications**

**Book Chapters:**


**Journal Papers in Review:**

1. L. Li, Z. Li, S. Liu, H. Li, "Multiview-Video-Based Compression of Plenoptic Point Clouds", submitted to *IEEE Transactions on Image Processing*.
2. L. Li, Z. Li, S. Liu, H. Li, "Rate Control for Video-based Point Cloud Compression", in review with *IEEE Transactions on Image Processing*.
3. Li Li, N. Yan, Z. Li, S. Liu, H. Li, "λ-domain Perceptual Rate Control for 360-degree Video Compression", in review with *IEEE Journal of Selected Topics in Signal Processing*.
4. L. Li, Z. Li, S. Liu, H. Li, "Occupancy-map-based Rate Distortion Optimization and Partition for Video-based Point Cloud Compression", in review with *IEEE Transactions on Circuits and Systems for Video Technology*.
5. L. Li, Z. Li, S. Liu, H. Li, "Efficient Projected Frame Padding for Video-based Point Cloud Compression", in review with *IEEE Transactions on Multimedia*.
6. Z. Zhang, X. Zhao, X. Li, L. Li, S. Liu, and Z. Li "Fast DST-7/DCT-8 with Dual ImplementationSupport for Versatile Video Coding", in revision with *IEEE Trans on Circuits & Sys. for Video Tech*.

**Journal Papers:**

13. Li Li, Z. Li, Bin Li, Dong Liu, Houqiang Li, "Quadtree-based Coding Framework for High Density Camera Array based Light Field Image", in *IEEE Transactions on Circuits and Systems for Video Technology*, 2019
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12. Z. Zhang, X. Zhao, X. Li, Z. Li, and S. Liu, "Fast Adaptive Multiple Transform for Versatile Video Coding", *IEEE Data Compression Conf* (DCC), Snowbird, USA, 2019.
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57. W. Ji, and Z. Li, "Joint Scalable Video and Digital Fountain Coding for Heterogeneous QoS Video Broadcasting", IEEE Int'l Conference on Multimedia & Expo (ICME), Barcelona (Spain), July 2011.


84. Z. Li, Y. Fu, J. Yuan, T. S. Huang, and Y. Wu, "Query Driven Local Linear Discriminant Models for Head Pose Estimation", Best Paper Candidate from HCI track, Proc. of IEEE Int'l Conf on Multimedia & Expo (ICME), Beijing, China, 2007.

Patents:

16 issued patents and dates:

6. US-9780878-B2: Zhu Li, Imed Bouazizi, Kyungmo PARK Enhanced distortion signaling for MMT assets and ISOBMFF with improved MMT QoS descriptor having multiple QoE operating points (2017-10-10)
31 pending patent applications:


18. US-2008123741-A1 Zhu Li, Faisal Ishtiaq, Method and system for intelligent video adaptation

19. US-20091191-A1 Zhu Li, Bhavan Gandhi, Brett Lindsley, Method for fuzzy logic rule based multimedia information retrieval with text and perceptual features

20. US-2008226173-A1 Junsong Yuan, Wei Wang, Zhu Li, Dongge Li, Method and apparatus for video clip searching and mining

21. US-2007036227-A1 Faisal Ishtiaq, Bhavan Gandhi, Zhu Li, Video encoding system and method for providing content adaptive rate control

22. US-2012278441-A1 Zhu Li, Jun Tian, Hong Heather Yu, System and Method for Quality of Experience Estimation


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35. US-2014201368-A1 Imed Bouazizi, Mark Edward Trayer, Kong Posh Bhat, Zhu Li, Youngkwon Lim Method and apparatus for enforcing behavior of dash or other clients


37. US-2009323575-A1 Zhu Li, Ethan Y. Chen, Faisal Ishtiaq, Hua Xu, John M. Harris Method and apparatus for multicasting within a wireless communication network

38. US-2016373500-A1 Zhu Li, Imed Bouazizi, Youngkwon Lim, Kyungmo PARK Method and apparatus for distributed bottleneck coordination in dash with resource pricing

39. US-2015281801-A1 Zhu Li, Imed Bouazizi, Kyungmo PARK Enhanced distortion signaling for mmr assets and isobmff with improved mmr qos descriptor having multiple qoe operating points

40. US-2014195560-A1 Xin Xin, Zhu Li, Abhishek Nagar, Gaurav Srivastava, Zhan Ma, Kong Posh Bhat, Felix Carlos Fernandes Two way local feature matching to improve visual search accuracy

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43. US-2009285499-A1 Anthony R. May, Shih-Ta Hsiang, Faisal Ishtiaq, Zhu Li In-picture prediction for video coding

44. WO-2016060506-A1 Zhu Li, Imed Bouazizi, Young-Kwon Lim, Kyung-Mo Park Method and apparatus for bottleneck coordination to achieve qoe multiplexing gains


**International Standards Contributions:**


