Patent Disclosures (Issued and Pending)

16 issued patents and dates:


6. US-9788078-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)


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

19. US-2004177069-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
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25. US-2007140550-A1 Dongge Li, Bhavan Gandhi, Zhu Li Method and apparatus for performing object detection
26. US-2005125821-A1 Zhu Li, Bhavan Gandhi, Aggelos Katsaggelos Method and apparatus for characterizing a video segment and determining if a first video segment matches a second video segment
27. US-2014101195-A1 Zhu Li, Ankur Saxena, Abhishek Nagar, Gaurav Srivastava, Kong Posh Bhat Incremental visual query processing with holistic feature feedback
28. US-2004085483-A1 Zhu Li, Bhavan Gandhi, Aggelos Katsaggelos Method and apparatus for reduction of visual content
30. US-2013089107-A1 Zhu Li, Yong Wang, Dong-Qing Zhang, Hong Heather Yu Method and Apparatus for Multimedia Queue Management
33. US-2012183173-A1 Zhu Li, Jun Tian, Hong Heather Yu System and Method for Content Protection in a Content Delivery Network
34. US-2014185941-A1 Zhu Li, Xin Xin, Abhishek Nagar, Gaurav Srivastava, Kong Posh Bhat, Felix Carlos Fernandes Robust keypoint feature selection for visual search with self matching score
35. US-2014201368-A1 Imed Bouazizi, Mark Edward Trayer, Kong Posh Bhat, Zhu Li, Youngkwn 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, Youngkwn 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 mmt assets and isombfff with improved mmt 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
41. WO-2015012659-A1 Abhishek Nagar, Xin Xin, Zhu Li, Gaurav Srivastava, Zhan MA, Felix Carlos Fernandes, Kong Posh Bhat Two way local feature matching to improve visual search accuracy
42. US-2014201200-A1 Zhu Li, Abhishek Nagar, Kong Posh Bhat, Xin Xin, Gaurav Srivastava, Felix Carlos Fernandes Visual search accuracy with hamming distance order statistics learning
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
Fernandes, Novel criteria for gaussian mixture model cluster selection in scalable compressed fisher vector (scfv) global descriptor


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14. Ying Li, Z. Li, Mung Chiang and A. Robert Calderbank, "Content-Aware Distortion Fair Video Streaming in


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5. 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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International Standards Contributions:


