

# Curriculum Vitae

Dr **Wanqing Li**, Associate Professor, SMIEEE  
Director of Advanced Multimedia Research Lab (AMRL)  
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## RESEARCH AREAS

- **Machine Learning and 3D Computer Vision** – Deep Learning, Human activity understanding, human detection, gait recognition, 3D sensing and reconstruction
- **3D Multimedia Signal Processing and Understanding** – Processing, scene analysis, event detection and motion analysis
- **Free Viewpoint Video (FVV)** – acquisition, processing, understanding and compression
- **Medical Image Processing** – Super-resolution, segmentation and reconstruction

## EDUCATION

- **Ph.D.** Electrical and Electronic Engineering, The University of Western Australia
- **M.Sc.**, Computer Science, Zhejiang University, China
- **B.Sc.**, Physics and Electronics, Zhejiang University, China.

## ACADEMIC/INDUSTRIAL EXPERIENCE

- **Associate Professor (2010- )**, **Senior Lecturer (2004-09)**, **Co-Director (09- )** of Advanced Multimedia Research Lab, **Deputy Director (09 – 13)** of ICT Research Institute, University of Wollongong, Australia
- **Visiting Researcher (2013, 2010, 07-08)** Microsoft Research, Redmond, USA
- **Principal Research Engineer (02-03)**, **Senior Research Engineer (98-01)**, Motorola Australian Research Labs.

## AWARDS

- Best Paper Award in International Conference on Digital Image Computing: Techniques and Applications (DICTA) 2015 by Australian Pattern Recognition Society
- 2<sup>nd</sup> place and 3<sup>rd</sup> place in ChaLearn "Isolated Gesture Recognition" and "Continuous Gesture Recognition" Contest, ICPR 2016
- 1<sup>st</sup> place of "large scale 3D human activity analysis challenge in depth videos", ICME 2017

## PROFESSIONAL ACTIVITIES

### Associate Editor

- *IEEE Transactions on Circuits and Systems for Video Technology (2018-)*
- *Journal of Visual Communication and Image Representation (2016 - )*

### Guest Editor

- *International Journal of Computer Vision*, Springer, Special issue on Human Activity Understanding from 2D and 3D data, 2015
- *Journal of Visual Communication and Image Representation*, Elsevier, Special issue on Visual Understanding and Applications with RGB-D Cameras, June 2013

### IEEE Technical Committee

- Secretary of Multimedia TC (MMTC), IEEE Communication Society, 2016-Present
- Co-Chair of the 3D Rendering, Processing and Communications Interest Group, MMTC, IEEE Communication Society, (2014-2016)

### Recent Conference Organizing Committee

- Meta Reviewer, 3DTV Conference (3DTV-Con), 2014, 2015 and 2016
- Area Chair, IEEE International Conference on Multimedia and Expro (ICME) 2014 and 2018
- Co-Chair, IEEE International Workshop on Hot Topics in 3D Multimedia 2014 (in conjunction with ICME 2014)

- General Co-Chair, International Conference on Digital Image Computing: Techniques and Applications (DICTA) 2014
- Co-chair, IEEE International Workshop on Human Activity Understanding from 3D Data (HAU3D), 2011, 2012, 2013 in conjunction with IEEE CVPR
- Co-Chair, The Australian Summit on 3D Multimedia (AU3DMM) 2011
- General Co-chair, ACM Symposium on Information, Computer and Communications Security 2009 (AsiaCCS'09)
- Publication Chair, IEEE International Workshop on Multimedia Signal Processing 2008 (MMSP'08)
- Co-chair, Special session on "Visual Information Processing for Large Scale Pattern Recognition", International Conference on Control, Automation, Robotics and Vision 2006 (ICARCV'06)
- General Co-chair, International Conference on Digital Rights Management: Technology, Issues, Challenges and Systems 2005 (DRMTICS'05).

### Review and Member of TPCs

- **Journals** include IEEE Trans. Pattern Analysis and Machine Vision, IEEE Trans. Image Processing, IEEE Trans. Multimedia, IEEE Trans. Circuit and System for Video Technology, IEEE Trans. Neural Networks and Learning Systems, IEEE Trans. Neural Networks, IEEE Signal Processing Letters. IEEE Journal of Selected Topics in Signal Processing, Neurocomputing, Pattern Recognition, Computer Vision and Image Understanding, etc.
- **Conferences & Workshops** include ICCVW ChaLearn(17), IEEE CVPR(15, 18), IEEE ICME(06, 09-11, 13, 15), IEEE ICIP(03-07, 09,22,13), IEEE MMSP(06-08,10-11,13-15), HAU3D(11-13), HoT3D(13,15), CDC4CV (12-14), MADIMA(15-17), etc. (see <http://www.uow.edu.au/~wanqing> for more information)

### PUBLICATIONS (last 10 years)

(Over 150 refereed papers published in total, see <http://www.uow.edu.au/~wanqing> for more details)

#### Refereed Journal Articles

1. P. Wang, W. Li, Z. Gao, C. Tang and P. Ogunbona, Depth pooling based large-scale 3D action recognition with convolutional neural networks, *IEEE Trans on Multimedia* (accepted March 2018)
2. H. Tian, W. Li, P. Ogunbona and L. Wang, Detection and separation of smoke from single image frames, *IEEE Trans on Image Processing*, 27(3), pp.1164-1177, 2018
3. Y. Hou, Z. Li, P. Wang and W. Li, Skeleton Optical Spectra Based Action Recognition Using Convolutional Neural Networks, *IEEE Trans on Circuits and Systems for Video Technology*, 28(3),pp.807-811, 2018
4. S Fu, F. Safaei and W. Li, Optimization of Camera Arrangement Using Correspondence Field to Improve Depth Estimation, *IEEE Trans on Image Processing*, 26(6), pp.3038-3050, 2017
5. Y. Hou, S. Wang, P. Wang, Z. Gao, W. Li, Spatially and Temporally Structured Global to Local Aggregation of Dynamic Depth Information for Action Recognition, *IEEE Access*, 6, pp.2206-2219, 2017.
6. P. Wang, W. Li, Z. Gao, J. Zhang, C. Tang and P. Ogunbona, Action Recognition from Depth Maps Using Deep Convolutional Neural Networks, *IEEE Trans. Human-Machine Systems* 46(4), pp. 498-509, 2016
7. J. Zhang, L. Wang, L. Zhou, and W. Li, Learning Discriminative Stein Kernel for SPD Matrices and Its Applications, *IEEE Trans Neural Networks and Learning Systems*, 27(5), 2015, pp.1020-1033.
8. J. Zhang, L. Zhou, L. Wang and W. Li, Functional Brain Network Classification With Compact Representation of SICE Matrices, *IEEE Trans Biomedical Engineering*, 62(6), 2015, pp.1623-1634.
9. H. Shidanshidi, F. Safaei and W. Li, Estimation of Signal Distortion Using Effective Sampling Density for Light Field-based Free Viewpoint Video, *IEEE Trans Multimedia*, 17(10), 2015, pp. 1677-1693
10. J. Luo, W. Li and Y. Zhu, Image Reconstruction from Limited-Angle Projections Based on  $\delta$ -u Spectral Analysis, *IEEE Trans Image Processing*, 19(1), 2010, pp.131-140.

11. W. Li, Z. Zhang and Z. Liu, Expandable Data-Driven Graphical Modeling of Human Actions Based on Salient Postures, *IEEE Trans. Circuits and Systems for Video Technology*, 18(1), 2008, pp.1499-1510.
12. M. Lee, S. Nikolic, P. Vial, C. Ritz, W. Li and T. Goldfinch, Engaging Industry in Student Projects Through a Video-Augmented 3D Virtual Trade Fair, *IEEE Trans Education*, 59(4), pp.290-298, 2016
13. C. Weerasinghe, W. Li, I. Kharitonenko, M. Nilsson, S. Twelves, Novel color processing architecture for digital cameras with CMOS image sensors, *IEEE Trans. Consumer Electronics*, 51(4), 2005., pp.1092-1098.
14. C. Li, Y. Hou, P. Wang and W. Li, Joint Distance Maps Based Action Recognition with Convolutional Neural Networks, *IEEE Signal Processing Letters*, 24(5), pp.624-628, 2017
15. C. Tang, J. Wu, C. Zhang, P. Wang, W. Li, Salient Object Detection via Weighted Low Rank Matrix Recovery, *IEEE Signal Processing Letters*, 24(4), pp.490-494, 2017
16. C. Tang, J. Wu, Y. Hou, P. Wang and W. Li, A Spectral and Spatial Approach of Coarse-to-Fine Blurred Image Region Detection, *IEEE Signal Processing Letters*, 23(11), pp.1652-1656, 2016
17. S. Liu, W. Li, S. Davis, C. Ritz and H. Tian, Planogram Compliance Checking Based on Detection of Recurring Patterns, *IEEE Multimedia*, 23(2), 2016, pp. 54-63.
18. C. Zhan, W. Li and P. Ogunbona, Measuring the Degree of Face Familiarity Based on Extended NMF, *ACM Trans on Applied Perception*, 10(2), 2013, pp.8:1-8:21.
19. H. Tian, W. Li, L. Wang and P. Ogunbona, Smoke Detection in Video: An Image Separation Approach, *International Journal of Computer Vision*, 106, 2013, pp.192-209.
20. L. Zhou, W. Li, P. Ogunbona and Z. Zhang, Semantic Action Recognition by Learning a Pose Lexicon, *Pattern Recognition*, accepted on 1 July 2017
21. J. Zhang, W. Li, P. Ogunbona, P. Wang, C. Tang, RGB-D-based Action Recognition Datasets: A Survey, *Pattern Recognition*, 60, pp.86-105, 2016
22. Duc Thanh Nguyen, Wanqing Li and Philip Ogunbona, Human Detection from Images and Videos: A Survey, *Pattern Recognition*, 51, 2016, pp.148-175
23. Thanh Duc Nguyen, P. Ogunbona and W. Li, A Novel Shape-Based Non-Redundant Local Binary Pattern Descriptor for Object Detection, *Pattern Recognition*, 46(5), 2013, pp.1485-1500.
24. L. Dong, G. Yu, P. Ogunbona and W. Li, An Efficient Iterative Algorithm for Image Thresholding, *Pattern Recognition Letter*, 29, 2008, pp.1311-1316.
25. C. Tang, X., Liu, M. Li, P. Wang, J. Chen, L. Wang and W. Li, Robust unsupervised feature selection via dual self-representation and manifold regularization, *Knowledge-Based System*, 145, pp.109-120, 2018
26. D. T. Nguyen, P. Ogunbona, W. Li, E. Tasker and J. Yearwood, Detection of ground parrot vocalisation: A multiple instance learning approach, *Journal of the Acoustical Society of America*, accepted on 04 August 2017
27. Y. Hou, C. Tang, C. Hou, P. Wang and W. Li, An Effective Edge-preserving Smoothing Method for Image Manipulation, *Digital Signal Processing*, 63, pp.10-24, 2017.
28. B. Saghafi, D. Rajan and W. Li, Efficient 2D viewpoint combination for human action recognition, *Pattern Analysis and Applications*, 9(2), pp.563-577, 2016
29. D. T. Nguyen, Z. Zong, P. Ogunbona, Y. Probst, W. Li, Food image classification using local appearance and global structural information, *Neurocomputing*, 140, 2014, pp.242-251.
30. Duc Thanh Nguyen, Wanqing Li, Philip O. Ogunbona, Inter-Occlusion Reasoning for Human Detection Based on Variational Mean Field, *Neurocomputing*, 110, 2013, pp.56-61.
31. J. Luo, J. Liu, W. Li and Y. Zhu, Image Reconstruction from Sparse Projections Using S-Transform, *Journal of Mathematical Imaging and Vision*, 43, 2012, pp.227-239.
32. C. Zhan, W. Li and P. Ogunbona, Local representation of faces through extended NMF, *Electronics Letters*, 48(7), 2012, pp.373-375.

33. Duc Thanh Nguyen, Wanqing Li and Philip Ogunbona, A Local Intensity Distribution Descriptor for Object Detection, *Electronics Letters*, 47(5), 2011, p. 322-324.
34. Wanqing Li, Philip Ogunboba, Chris deSilver and Yannia Attikiouzel, Semi-Supervised MAP Segmentation of Brain Tissues from Dual Echo MR Scans Using Incomplete Training Data, *IET Image Processing*, Vol.5, Issue.3, pp.222-232, April 2011.
35. J. Randall, L. Guan, W. Li and X. Zhang, The HCM for Perceptual Image Segmentation, *Neurocomputing*, 71(10-12), 2008, pp.1966-1979.
36. B. Qin, J. Luo, Z. Mou, W.Li, P. Ogunbona, M. Robin and Y. Zhu, A Singular K-space Model for Fast Reconstruction of Magnetic Resonance Images from Undersampled Data, *Medical & Biological Engineering & Computing*, accepted on 03 Nov 2017
37. J. Luo, Z. Mou, B. Qin, W. Li, F. Yang, M. Robini, and Y. Zhu, Fast single image super-resolution using estimated low-frequency k-space data in MRI, *Magnetic Resonance Imaging*, 40, pp.1-11, 2017
38. J. Luo, Shanshan Wang, Wanqing Li and Yuemin Zhu, Removal of Truncation Artefacts in Magnetic Resonance by Recovering Missing Spectral Data, *Journal of Magnetic Resonance*, 224, 2012, pp.82-93.
39. J. Luo, Y. Zhu, W. Li, P. Croisille and I. E. Magnin, MRI Reconstruction From 2D Truncated k-Space, *Journal of Magnetic Resonance Imaging*, 35(5), 2012, pp.1196-206.
40. Yasmine Probst, Duc Thanh Nguyen, Minh Khoi Tran and Wanqing Li, Dietary Assessment on a Mobile Phone Using Image Processing and Pattern Recognition Techniques: Algorithm Design and System Prototyping, *Nutrients*, 7(8), 2015, pp.6128-38

### Refereed International Conference Papers

41. P. Wang, W. Li, J. Wan, P. Ogunbona, and X Liu, *Cooperative Training of Deep Aggregation Networks for RGB-D Action Recognition*, AAAI 2018 (accepted)
42. S. Li, D. Florencio, Y. Zhao, C. Cook and W. Li, *Foreground detection in camouflaged scenes*, IEEE ICIP 2017
43. J. Zhang, W. Li and P. Ogunbona, *Joint Geometrical and Statistical Alignment for Visual Domain Adaptation*, IEEE CVPR 2017
44. P. Wang, W. Li and P. Ogunbona, *Scene flow to action map: A new representation for RGB-D based action recognition with convolutional neural networks*, IEEE CVPR 2017
45. Z. Ding, W. Li, P. Wang, P. Ogunbona and L. Qin, *Weakly structured information aggregation for upper-body posture assessment using CONVNETS*, IEEE ICME 2017 (oral)
46. P. Wang (S), W. Li, S. Liu (S), Z. Gao (S), C. Tang and P. Ogunbona, *Large-scale Isolated Gesture Recognition Using Convolutional Neural Networks*, ICPR ChaLearn Contest of Isolated Gesture Recognition 2016 (2<sup>nd</sup> Place)
47. P. Wang (S), W. Li, S. Liu (S), Y. Zhang (S), Z. Gao(S), P. Ogunbona, *Large-scale Continuous Gesture Recognition Using Convolutional Neural Networks*, ICPR ChaLearn Contest of Continuous Gesture Recognition 2016 (3<sup>rd</sup> Place)
48. J. Zhang (S), W. Li, P. Wang (S), P. Ogunbona, S. Liu (S), C. Tang (S), *A Large-scale RGB-D dataset for action recognition*, ICPR workshop on UHA3DS, 2016
49. P. Wang, Z. Li, Y. Hou and W. Li, *Action Recognition Based on Joint Trajectory Maps Using Convolutional Neural Networks*, ACM Multimedia 2016
50. L. Zhou, W. Li and P. Ogunbona, *Learning a pose lexicon for semantic action recognition*, IEEE ICME 2016
51. Y. Zhang, P. Ogunbona, W. Li and G. Wallace, *Learning Structured Dictionary Based On Inter-Class Similarity And Representative Margins*, ICASSP 2016
52. L. Wang, J. Zhang, L. Zhou, C. Tang, and W. Li, *Beyond Covariance: Feature Representation with Nonlinear Kernel Matrices*, International Conference on Computer Vision (ICCV), 2015

53. Pichao Wang, Wanqing Li, Zhimin Gao<sup>1</sup>, Chang Tang, Jing Zhang and Philip Ogunbona, *ConvNets-Based Action Recognition from Depth Maps through Virtual Cameras and Pseudocoloring*, ACM Multimedia 2015.
54. Song Liu, Wanqing Li, Philip Ogunbona and Yang-Wai Chow, *Creating Simplified 3D Models with High Quality Textures*, International Conference on Digital Image Computing: Techniques and Applications (DICTA), 2015 (**best paper award**)
55. H. Shidanshidi, F. Safaei, and W. Li, Optimization Of The Number Of Rays In Interpolation For Light Field Based Free Viewpoint Systems, IEEE ICME 2015
56. Pichao Wang, Wanqing Li, Philip Ogunbona, Zhimin Gao and Hanling Zhang, Mining Mid-level Features for Action Recognition Based on Effective Skeleton Representation, International Conference on Digital Image Computing: Techniques and Applications (DICTA), 2014
57. Lijuan Zhou, Wanqing Li, Yuyao Zhang, Philip Ogunbona, Duc Thanh Nguyen and Hanling Zhang, Discriminative Key Pose Extraction using Extended LC-KSVD for Action Recognition, International Conference on Digital Image Computing: Techniques and Applications (DICTA), 2014.
58. H. Tian, W. Li, P. Ogunbona and L. Wang, Single Image Smoke Detection, Asian Conference on Computer Vision (ACCV) 2014.
59. J. Zhang, L. Zhou, L. Wang, and W. Li, Exploring Compact Representation of SICE Matrices for Functional Brain Network Classification, MICCAI Workshop on Machine Learning in Medical Imaging (MLMI), Boston, USA, 2014
60. Jianjia Zhang, Lei Wang, Lingqiao Liu, Luping Zhou and Wanqing Li, *Accelerating the Divisive Information-Theoretic Clustering of Visual Words*, International Conference on Digital Image Computing: Techniques and Applications (DICTA), 2013
61. Yuyao Zhang, Philip O. Ogunbona, Wanqing Li, Bridget Munro and Gordon G. Wallace, *Pathological Gait Detection of Parkinson's Disease using Sparse Representation*, International Conference on Digital Image Computing: Techniques and Applications (DICTA), 2013
62. F. Safaei, P. Mokhtarian, H. Shidanshidi, W. Li, M. Namazi-Rad<sup>‡</sup> A. Mousavinia, *Scene-adaptive Configuration of Two Cameras using the Correspondence Field Function*, IEEE ICME 2013, San Jose, USA, 15-19 July 2013 (oral, nominated for the Best Paper Award).
63. H. Shidanshidi, F. Safaei, and W. Li, *A method for calculating the minimum number of cameras in a light field based free viewpoint video system*, IEEE ICME 2013, San Jose, USA, 15-19 July 2013 (oral).
64. H. Shidanshidi, F. Safaei, and W. Li, *Non-uniform sampling of plenoptic signal based on the scene complexity variations for a free viewpoint video system*, IEEE ICIP 2013, Melbourne, Australia, 15-18 September 2013.
65. Lei Wang, Jianjia Zhang<sup>†</sup>, Luping Zhou, Wanqing Li, *A Fast Approximate AIB Algorithm for Distributional Word Clustering*, IEEE CVPR Portland, Oregon 2013.
66. Elahe Farahzadeh, Cham Tat-jen and Wanqing Li, *Incorporating Local and Global Information using a Novel Distance Function for Scene Recognition*, IEEE Workshop On Robot Vision (WORV) 2013.
67. Hongda Tian, Wanqing Li, Lei Wang, Philip Ogunbona, *A Novel Video-Based Smoke Detection Method Using Image Separation*, ICME 2012.
68. Ce Zhan, Wanqing Li, and Philip Ogunbona Measuring Face Familiarity and Its Application to Face Recognition, IEEE Workshop on the Applications of Computer Vision (WACV) 2012
69. Qishen Wang, Ou Wu, Weiming Hu, Jinfeng Yang and Wanqing Li, Ranking Social Emotions by Learning Listwise Preference, Asian Conference on Pattern Recognition (ACPR), 2011, pp.164-168.
70. Ce Zhan, Wanqing Li, and Philip Ogunbona, Face Representation Based on Extended Non-negative Matrix Factorization, International Conference Image and Vision Computing New Zealand (IVCNZ) 2011
71. Ce Zhan, Wanqing Li, and Philip Ogunbona, Age Estimation Based on Extended Non-negative Matrix Factorization, IEEE Workshop on Multimedia Signal Processing (MMSP) 2011, pp.1-6.
72. Hongda Tian, Wanqing Li, Philip Ogunbona, Duc Thanh Nguyen, Ce Zhan, Smoke Detection in Videos Using Non-Redundant Local Binary Pattern-Based Features, IEEE Workshop on Multimedia Signal Processing (MMSP) 2011, pp.1-4.

73. Hooman Shidanshidi, Farzad Safaei, Wanqing Li, Objective Evaluation Of Light Field Rendering Methods Using Effective Sampling Density, IEEE Workshop on Multimedia Signal Processing 2011, pp.1-6.
74. Ramakrishna Kakarala, Prabhu Kaliamoorthi, Wanqing Li, *Viewpoint invariants from three-dimensional data: the role of reflection in human activity understanding*, Proc. Computer Vision and Pattern Recognition (CVPR) Workshop on Human Activity Understanding from 3D Data, 2011, pp.57-62.
75. Duc Thanh Nguyen, Philip Ogunbona, and Wanqing Li, *Detecting Humans Under Occlusion Using Variational Mean Field Method*, IEEE ICIP 2011, pp.2049-2052.
76. Duc Thanh Nguyen, Philip Ogunbona, and Wanqing Li, *Human Detection With Contour-Based Local Motion Binary Patterns*, IEEE ICIP 2011, pp.3609-3612.
77. Hooman Shidanshidi, Farzad Safaei, Wanqing Li, *A Quantitative Approach For Comparison And Evaluation Of Light Field Rendering Techniques*, IEEE ICME 2011 (Industrial Program), pp.1-4.
78. Ce Zhan, Wanqing Li and Philip Ogunbona, *Finding distinctive facial areas for face recognition*, Proc. Eleventh International Conference on Control, Automation, Robotics and Vision (ICARCV), 2010.
79. Duc Thanh Nguyen, Wanqing Li and Philip Ogunbona, *Human Detection using Local Shape and Non-Redundant Binary Patterns*, Proc. Eleventh International Conference on Control, Automation, Robotics and Vision (ICARCV), 2010.
80. Duc Thanh Nguyen, Zhimin Zong, Philip Ogunbona, Wanqing Li, *Object Detection Using Non-Redundant Local Binary Patterns*, Proc Intl Conference on Image Processing (ICIP), 2010.
81. Duc Thanh Nguyen, Wanqing Li and Philip Ogunbona, *An Improved Template Matching Method for Object Detection*, LNCS 5996, Springer-Verlag, 2010, pp.193-202.
82. LI Li, Weiming Hu, Bing Li, Chunfeng Yuan, Pengfei Zhu, Wanqing Li, *Event Recognition based on Top-Down Motion Attention*, Proc Intl Conference on Pattern Recognition (ICPR), 2010.
83. Zhimin Zong, Duc Thanh Nguyen, Philip Ogunbona, Wanqing Li, *On the Combination of Local Texture and Global Structure for Food Classification*, IEEE Intl Symposium on Multimedia, 2010
84. Ce Zhan, Wanqing Li, and Philip Ogunbona, *Head Pose Estimation Based on Extended Non-negative Matrix Factorization*, Proc Image and Vision Computing New Zealand (IVCNZ) 2010.
85. Wanqing Li, Zhengyou Zhang, Zicheng Liu, Action recognition based on a bag of 3D points, Proc. Computer Vision and Pattern Recognition (CVPR) Workshop, 2010, pp.9-14.
86. Ce Zhan, Wanqing Li and Philip Ogunbona, *Face Recognition from Single Sample based on Human perception*, Proc Image and Vision Computing New Zealand (IVCNZ) 2009, pp.56-61.
87. Duc Thanh Nguyen, Wanqing Li and Philip Ogunbona, *A Part-based Template Matching for Multi-view Human Detection*, Proc Image and Vision Computing New Zealand (IVCNZ) 2009, pp.357-362.
88. Peng Chen, Wanqing Li and Philip Ogunboba, *Kernel PCA of HOG features for Posture Detection*, Proc Image and Vision Computing New Zealand (IVCNZ) 2009, 415-420.
89. Duc Thanh Nguyen, Wanqing Li and Philip Ogunbona, *A Novel Template Matching Method For Human Detection*, IEEE ICIP 2009, pp.2549-2552
90. Alister Cordiner, Philip Ogunbona and Wanqing Li, *Face Detection Using Generalised Integral Image Features*, IEEE ICIP 2009, pp.1229-1232.
91. Duc Thanh Nguyen, Wanqing Li and Philip Ogunbona, *Human Detection Based On Weighted Template Matching*, IEEE ICME 2009, pp.634-637.
92. Peng Chen, Wanqing Li and Philip Ogunboba, *Greedy approximation of kernel PCA by minimizing the mapping error*, Digital Image Computing: Techniques and Applications (DICTA) 2009, pp.303-308
93. Li Li, Weiming Hu, Ying Chen, Wanqing Li and Xiaoqing Zhang, , *Recognition of Semantic Basketball Events Based on Optical Flow Patterns*, LNCS 5876, Springer-Verlag, 2009, pp.480-488.
94. Wanqing Li, Zhengyou Zhang and Zicheng Liu, *Graphical Modeling and Decoding of Human Actions*, IEEE MMSP 2008, pp. 175-180.

95. Xianglin Zeng, Weiming. Hu, Wanqing Li, Xiaoqin Zhang and Bo Xu, *Key-frame Extraction Using Dominant-Set Clustering*, IEEE ICME 2008, pp.1285-1288.
96. Alister Cordiner, Philip Ogunbona and Wanqing Li, *Illumination Invariant Face Detection Using Classifier Fusion*, LNCS 5353, Springer-Verlag, 2008, pp.456-465.

### **Scholarly Books**

97. Alister Cordiner, Philip Ogunbona and Wanqing Li, *Illumination Invariant Face Detection: Detecting Faces in Challenging Lighting Conditions*, VDM Verlag Dr. Müller, 2010 (**ISBN-10:** 3639229142, **ISBN-13:** 978-3639229141).

### **Edited Research Books**

98. R. Safavi-Naini, V. Varadharajan, U. Tupakula, W. Susilo and Wanqing Li (editors), *Proceedings of ACM Symposium on ICCS (ASIACCS) 2009*, 10-12 Mar., Sydney, Australia.
99. David Feng, Thomas Sikora, W. C. Siu, Jian Zhang, Ling Guan, Jean-Luc Dugelay, Qiang Wu and Wanqing Li (editors), *Proceedings of IEEE MMSP 2008*, 8-10 Oct, Cairns, Australia.

### **Scholarly Book Chapters**

100. Hooman Shidanshidi, Farzad Safaei, Wanqing Li, *Quality Assessment, Evaluation, and Optimization of Free Viewpoint Video Systems by Using Effective Sampling Density*, in *Connected Media in the Future Internet Era* (eds. A. Kondo and T. Dagiuklas), 2016
101. Elahe Farahzadeh, Tat-Jen Cham, Wanqing Li, *Semantic and Spatial Content Fusion for Scene Recognition*, in *New Development in Robot Vision* (eds. Y. Sun et al), *Cognitive Systems Monographs Volume 23*, 2015, pp 33-53, Springer.
102. Yasmine Probst, Duc Thanh Nguyen, Megan Rollo, and Wanqing Li, *mHealth Diet and Nutrition Guidance*, in *mHealth Multidisciplinary Verticals* (eds. Sasan Adibi), CRC Press, Nov 2014
103. W. Li, Z. Liu and Z. Zhang, *Activity Recognition*, *Encyclopaedia of Computer Vision*, Springer Science Business Media, LLC, 2013.
104. Wanqing. Li, Philip Ogunbona Zhengyou Zhang and Zicheng Liu, *Human Action Recognition with Expandable Graphical Models*, in *Machine Learning for Human Motion Analysis: Theory and Practice* (eds. Wang, L., Cheng, L. & Zhao, G.), IGI Global, 2009, pp.187-212.