（表 C302）論文著述目錄

(A) Journal Papers (SCI 期刊)

1. Huang, C. L., "Elliptical Feature Extraction via an Improved Hough Transform," *Pattern Recognition Letter*, Vol. 10, pp. 93-100, 1989.
2. Huang, C. L., "Polyhedral Objects Identification through the Orthographic Projection Views Generation," *Pattern Recognition Letters*, Vol. 10, pp. 321-327, 1989.
3. Huang, C. L., "2-D Contour and 3-D Shape Analysis of Straight Homogeneous Generalized Cylinder," *Journal of Information Science and Engineering*, Vol. 6, pp. 339-360, 1990.
4. Huang, C. L., "Contour Image Sequence Compression through Motion Analysis and Hybrid Coding Methods," *Multi-Dimensional Systems and Signal Processing*, Vol. 3, pp. 267-296, 1992.
5. Huang, C. L., "Parallel Image Segmentation using Modified Hopfield Model," *Pattern Recognition Letters*, Vol. 13, No. 5, pp. 345-353, May 1992.
6. Huang, C. L. and Wu, C. H., "Dynamic Scene Analysis using Path and Shape Coherence," *Pattern Recognition*, Vol 25, No. 5, pp. 445-461, May 1992.
7. Huang, C. L. and Chen, C. W., "Object Identification using Modified Distributed Associated Memory," *Pattern Recognition Letters*, Vol. 13, pp. 569-579, August 1992.
8. Chen, C. W. and Huang, C. L., "Human Face Recognition from a Single Front View," *Int. J. of Pattern Recognition and Artificial Intelligence*, Vol. 6, No. 4, pp. 571-593, Oct. 1992.
9. Chang, I. C. and Huang, C. L., "Aspect Graph Generation for Non-Convex Polyhedral from Perspective Projection View," *Pattern Recognition*, Vol. 25, No. 10, pp. 1075-1096, Oct. 1992.
10. Huang, C. L., Cheng, T. Y. and Chen C. C., "Color Images Segmentation using Scale Space Filter and Markov Random Field," *Pattern Recognition*, Vol. 25, No. 10, pp. 1217-1229, Oct 1992.
11. Huang, C. L. and Chen, C. W., "Human Facial Feature Extraction for Face Recognition and Interpretation," *Pattern Recognition*, Vol. 25, No. 12, pp. 1435-1444, Dec. 1992.
12. Huang, C. L., "Pictorial Drawing generation for Polyhedral Objects Recognition using Intensity Images," *Pattern Recognition Letters*, Vol. 14, pp. 121-131, Feb. 1993.
13. Chen, C. C. and Huang, C. L., "Markov Random Fields for Texture Classification," *Pattern Recognition Letters*, Vol. 14, pp. 907-914, Nov. 1993.
14. Huang, C. L. and Hsu, C. Y., "A New Motion Compensation Method of Image Sequence Using Hierarchical Grid Interpolation," I*EEE Trans. on Circuit and System for Video Technology*, Vol. 4, No.1, pp. 42-52, Feb. 1994.
15. Lien, C. C. and Huang, C. L., "2-D Non-separable Perfect Reconstruction Filter Banks Design for Subband Image Coding," *Multi-Dimensional Systems and Signal Processing*, Vol.

5, No. 3, pp. 289-300, 1994.

16. Wang. S. C. and Huang, C. L., "Structure Recovery and Motion Estimation from Stereo Motion," *IEICE Trans. on Information and Systems*, Vol. E77-D, No.11, pp.1247-1258, Nov. 1994.
17. Chang, I. C., Huang, C. L., Lein, C. C., Wu, L. C., Yeh, S. H., "Left Ventricular Motion Analysis of 4-D SPECT Imaging using Normal Direction Constraint," *IEICE Trans. on Information and Systems*, Vol. E-77D, No.11, pp.1262-1272, Nov. 1994.
18. Huang, C. L. and Chen Y. T., "Motion Estimation Method using 3-D Steerable Filter," *Image and Vision Computing*, Vol.13, No.1, pp.21-32, Feb. 1995.
19. Huang, C. L. and Chao, T. T., "Motion-Compensated Interpolation for Scan Rate Up-Conversion," *Optical Engineering*, Vol. 35, No.1, pp.166-176, Jan. 1996.
20. Chang W. C., Kuo, J. D., Huang, Y. M., Huang C. L., Wu, L. C. Wang, J. K. and Liu, R. S., "Lossless Image Compression for PET Imaging," *Biomedical Engineering*, Vol. 8, No. 3, pp.61-68, June 1996.
21. Huang C. L. and Chen K. C., "Directional Moving Averaging Interpolating for Texture Mapping," *Graphical Models and Image Processing*, Vol.58, No.4, July, pp.301-313, 1996.
22. Tsai, I. W. and Huang C. L., "Hybrid Cell Loss Concealment Methods for MPEG-II-Based Packet Video," *Signal Processing: Image Communication*, Vol.9, no.2, pp.99-124, Jan. 1997.
23. Lien, C. C., Huang, C. L. and Chen, J. G., "Complex-Subband Transform for Subband-Based Motion Estimation/Compensation and Coding," *IEEE Trans. on Image Processing*, Vol.6, No.5, pp.694-702, May 1997.
24. Yang, M. C. K., Lee, J. S., Lien, C. C., and Huang, C. L., "Hough transform Modified by Line Connectivity and Line Thickness," *IEEE Trans. on PAMI*, Vol. 19, No.8, pp.905-910, Aug. 1997.
25. Huang, C. L., Chang, W. C., Wu, L. G., and Wang, J. K., "3-D PET emission scans registration and transmission scan synthesis," *IEEE Trans. on Medical Imaging*, Vol. 16, No.5, pp.542-561, Oct., 1997.
26. Lien C. C. and Huang, C. L., "Model-based Articulated Hand Motion Tracking for Gesture Recognition" *J. of Image and Vision Computing*, vol.16, no.2, pp.121-134, 1998.
27. Huang, C. L. and Huang D. H., "A Content-based Image Retrieval System" *J. of Image and Vision Computing*, vol.16, no.3, pp.149-163, 1998.
28. Huang, C. L. and Huang, Y. M., "Facial Expression Recognition Using Model-Based Feature Extraction and Motion Pattern Classification," *J. of Visual Comm. and Image Representation*, vol.8, no.3, pp.278-290, 1997.
29. Huang, C. L. Huang W. Y., "Sign Language Recognition using Model-Based Tracking and 3-D Hopfield Neural Network," *Machine Vision and Application*, Vol.10, pp.292-301, 1998.
30. Lien, C. C. and Huang, C. L., "The Model Based Dynamic Hand Posture Identification Using Genetic Algorithm" *Machine Vision and Application*, vol.11, pp.107-121, 1999.

31. Lien C. C. and Huang, C. L., “Model-based Articulated Hand Motion Tracking for Gesture Recognition” *J. of Image and Vision Computing,* vol.16, no.2, pp.121-134, 1998.
32. Lien, C. C. and Huang, C. L., “The Model Based Dynamic Hand Posture Identification Using Genetic Algorithm” *Machine Vision and Application*, vol.11, pp.107-121, 1999.
33. Chang I. C., and Huang, C. L., “ Human Body Walking Motion Analysis using Hidden Markov Models and Active Shape Model,” *Journal of Information Science and Engineering,,* vol.17, pp.371-403, 2001.
34. Huang, C. L., M. S. Wu, and Jeng S. H. “Gesture Recognition using the Multi-PDM method and Hidden Markov Model,” *J. of Image and Vision Computing,* vol. 18, pp. 865-879, August 2000.
35. Chang I. C. and Huang, C. L., “The Model-Based Human Body Motion Analysis System,” *J. of Image and Vision Computing*, vol. 18, pp. 1067-1083, 2000.
36. Huang, C. L. and Hsu, S. H., “Road Sign Detection and Recognition using Matching Pursuit Method,” *J. of Image and Vision Computing.* vol.19, pp.119-129, 2001.
37. Huang C. L. and Jeng, S. H., “A Model-Based Hand Gesture Recognition System,” *Machine Vision and Application*, vol.12, pp.243-258, 2001.
38. Huang C. L. and Liao, B. Y., “Robust Scene Change Detection for Video Segmentation,” *IEEE Trans. on CAS for VT*, pp. 1281-1288, Dec. 2001.
39. Chou Y. T., Hwang W. L., and Huang C. L., “Matching Pursuit Low-Bit Rate Video Coding with a Dictionary Optimized by Gain-Shape Vector Quantizer,” *Signal Processing*, vol. 83, pp.1937-1943, 2003.
40. Chen, F. S., Fu, C. M., and Huang, C. L. “Hand Gesture Recognition Using a Real-Time Tracking Method and Hidden Markov Models” *Image and Vision Computing*, Vol. 21, pp. 745-758, 2003.
41. Hung B. F. and Huang, C. L. “Content-based FGS Coding Mode determination for Video Streaming over Wireless Network,” *IEEE J. Selected Areas in Communication*, Vol. 21, No. 10, pp.1595-1604, 2003.
42. Huang C. L. and Liang, S., “Unequal error protection for MPEG-2 video transmission over wireless channels,” *Image Communication*, Vol. 19, pp.67-79, Jan 2004.
43. Huang, C. L. and Chung, C. Y., “A real-time model-based human motion tracking and analysis for human computer interface systems,” *EURASIP J. on Applied Signal Processing*, Vol. 2004, No. 11, pp. 1648-1662, Sept. 2004.
44. Chan H.-T., Fu Chih-Ming, and Huang C.-L., “A New Error Resilient Video Coding Using Matching Pursuit and Multiple Description Coding” *IEEE Trans. on CAS for VT*. Vol. 15, No.8, pp. 1047-1052, Aug. 2005.
45. Fu C.M., Hwang W.L. and Huang C.L., “Data-aided frame timing acquisition for fractal modulation in an AWGN channel” *Signal Processing, vol. 86, pp.310-318, 2006*.
46. Shih H.-C. and Huang, C.-L. “*MSN*: Statistical Understanding of Broadcasted Baseball

Video Using Multi-Level Semantic Network" *IEEE Trans. on Broadcasting, Vol. 51, No.4, pp.449~459, Dec. 2005.*

47. Huang, C.-L., Shih, H.-C. and Chao, C.-Y. "Semantic Analysis of Soccer Video using Dynamic Bayesian Network" *IEEE Trans. on Multimedia*, Vol. 8, No. 4, pp. 749-760, Aug. 2006.
48. Fu C. M., Hwang W. L. and Huang C. L., "A Joint Source and Channel Coding for Error-Resilient SPHIT-coded Video Stream," *Visual Communication and Image Representation*, Vol. 16, pp.1164-1177 Dec. 2006.
49. Fu C. M., Hwang W. L. and Huang C. L., "A Subspace Approach to Timing Acquisition for Wavelet-Based Multirate Transmission," *IEEE Trans. on Communication*, Vol. 55, No.1, pp.1111-1115, June 2007.
50. Fu C. M., Hwang W. L. and Huang C. L., "Combined Error-concealment and Error-correction in Rate-Distortion Analysis for Multiple Substream Transmissions" *IEEE Trans. on Image Processing*, Vol. 16, No. 4, pp. 1022-1035, April 2007.
51. Che, W. G., Huang, C. L. and Hwang, W. L." Automatic Eye Winks Interpretation System for Human Machine Interface," *EURASIP Journal on Image and Video Processing* Volume, Article ID 65184, 9 pages, 2007.
52. Chen, S. Y., Huang, C. L., Fu, C. M., "Hybrid-Boost Learning for Multi-pose Face Detection and Facial Expression Recognition" *Pattern Recognition*, 41, 1173 – 1185, 2008.
53. M-H Cheng, M-F Ho, C-L Huang, "Gait analysis for human identification through manifold learning and HMM,", *Pattern Recognition* 41, 2541 – 2553, 2008.
54. Lien, K-C and Huang, C-L "Multiview-Based Cooperative Tracking of Multiple Human Objects," *EURASIP Journal on Image and Video Processing* Volume, Article ID 253039, 13 pages, 2008.
55. H. C. Shih, and C. L. Huang, "Content Extraction and Interpretation of Superimposed Captions for Broadcasted Sports Videos," *IEEE Trans. on Broadcasting*, vol. 54, no. 3, Sept. 2008 (**SCI, EI**).
56. H. C. Shih, J.-N. Hwang, and C. L. Huang, "Video Attention Ranking using Visual and Contextual Attention Model for Content Driven Sports Videos Mining," *IEEE Trans. on Multimedia Special Issue on Integration of Context and Content for Multimedia Management*, 2009, in press.
57. H. C. Shih, J.-N. Hwang, and C. L. Huang, "Interactive Attention Ranking for Commercial Sports Videos," *IEEE MultiMedia*, vol. 16, no. 4, pp.70~81, 2009.
58. I-C. Chang, T. L. Yang, and C. L. Huang "Frequency-based Environment Matting of Transparent Objects Using Kaczmarz Method" *J. of Information Science and Engineering*, vol. 26, No. 4, pp. 1413~1428, July 2010.
59. I-C. Chang, H.Y. Chou, and C. L. Huang,"Texture Compression and Relighting of 3-D Color Objects Using Singular Value Decomposition" *J. of Information Science and*

Engineering, Vol. 26 , No.2, pp.485~504, 2010.

60. M. F. Ho, C. Y. Tseng, C. C. Lien and C. L. Huang,"A Multi-view Vision-based Hand Motion Capturing System," *Pattern Recognition*, vol. 44 no. 2, pp. 443~453, Feb. 2011.
61. Y. T. Liao, C. L. Huang, and S. C. Sheu," Slip and Fall Events Detection using Bayesian Belief Network," *Pattern Recognition*, vol. 45 no. 1, pp. 24~32, Jan. 2012.

(B) National Conference Papers(國內會議論文)

1. Wu, C. H and Huang, C. L., "Line Segment Correspondence Finding using Path and Shape Coherence," Proc. of Int. Computer Symposium ICS-90, Hsin-Chu, Taiwan, ROC, Dec. 1990.
2. Chang, I. C. and Huang, C. L., "Non-Convex Polyhedra Object Mode Representation via Aspect Graph Generation," Proc. of Workshop on Computer Vision, Graphic and Image Processing, Aug. 26-28, 1991, Tainan, Taiwan, ROC.
3. Cheng, T. Y. and Huang, C. L., "Color Image Segmentation using Scale Filter and Markov Random Field," Proc. of Workshop on Computer Vision ,Graphic and Image Processing, Aug, 26-28, 1991, Tainan, Taiwan, ROC.
4. Huang, C. L. and Chen, C. W., "Human Face Recognition using Deformable Template And Active Contour Model," Proc. of Workshop on Computer Vision, Graphic and Image Processing, Aug. 26-28, 1991, Tainan, Taiwan, ROC.
5. Hsia, C. Y. and Huang C. L., "Visual Events Identification of Solids of Revolution from Perspective View," Proc, of National Computer Symposium'91, pp. 402-407., Dec. 1991, Chung-Li, Taiwan, ROC.
6. Shih K. F. and Huang, C. L., "A variable Block Sized VQ of Image Sequence using Unconstrained Tiling," Proc. of CGVIP Conference'92, Sun-Moon-Lake, Taiwan, ROC, Aug. 24-26, 1992.
7. Huang, C. L., Hsu, C. Y. and Shih, K. F., "Applying Hierarchical Motion Estimation to the Constant and Deformable Block Matching Motion Compensation Methods," Proc. of HD-Media Technology and Applications Workshop, Nov. 25-27, 1992, Taipei, Taiwan, ROC.
8. Huang, C. L. and Chen, Y. T., "A New Motion Estimation Method for Image Sequence Coding," Proc. of 1993 IPPR Conf. on CVGIP, Nan-Tou, Taiwan, ROC, Aug. 23-25, 1993, pp. 341-348.
9. Chang C. W., Kuo J. D., Huang Y. M., Huang C. L., Wu L. C., Wang J. K., and Liu R. S., "Lossless Image Compression Methods for PET Medical Imaging," Proc. of 2nd MEWW, Tapei, Taiwan, May 28-30, 1996.
10. Huang, D. H. and Huang, C. L., "Content-Based Image Retrieval System," Proc. of IPPR Conf. on CVGIP, Aug. 19-21, Tai-Chung, Taiwan, ROC.
11. Huang, C. L. and Huang Y. M., "Facial Expression Recognition Using Model-Based Feature

Extraction and Motion Pattern Classification," Proc. of IPPR Conf. on CVGIP, Aug. 19-21, Tai-Chung, Taiwan, ROC.

12. Huang, C. L. and Chang P. Y., "A Multi-resolution Image Registration for Medical Imaging," Proc. of IPPR Conf. on CVGIP, Aug. 17-19, 1997, Tai-Chung, Taiwan, ROC.
13. Huang, C. L., Jeng, S. H., and Chen F. S., "Gesture Recognition using Hidden Markov Model," Proc. of 1997 Multimedia tech. Appl. Sym., Dec. 8, 1997, Kao-Hsiung, ROC.
14. Chen, F. S. and Huang, C. L., Chung, C. Y., "Gesture Recognition Using Hidden Markov Models" Proc. of IPPR Conf. on *CVGIP 1999*, Tai-Chung, Taiwan, ROC.
15. Lin T.-H., Ho M.-F., and Huang C.-L., "A Joint Source-Channel Coding Scheme for The Incorporated Multiple Description Coding with JPEG2000," Proc. *CVGIP 2005*, Taipei, ROC.
16. Shih, H.-C., Chen, C.-L., and Huang, C.-L., "Semantic Understanding and Shot Event Analysis for Basketball Video," Proc. *CVGIP 2005*, Taipei, ROC.
17. Chien C-Y, Fu C-M, Weng C-Y, Huang C-L, "Vision-Based Real-Time 3-D Arm Pointing System Using Multiple Cameras" Proc. *CVGIP 2006*, Tao-Yuen, ROC.
18. Cheng, M-H, Ho M-F, Lan, S-F, Huang, C-L, "Gait Analysis For Human Identification Through Manifold Learning and HMM" Proc. *CVGIP 2006*, Tao-Yuen, ROC.
19. Che, W. G, Lin, J. L., Hwang, W. L., and Huang, C. L., "Iris Recognition On Matching Pursuits," Proc. *CVGIP 2006*, Tao-Yuen, Taiwan, ROC.
20. Y-S Lee, C-L Huang, J Ho, and W-L Huang, "Iris Recognition Using Dynamic Programming Matching Pursuit" Proc. CVGIP 2007, Mao-Lee, Taiwan, ROC.
21. C-Y Tseng, C-C Lien, and C-L Huang , " A Multi-View-Multi-Camera-Based Hand Motion Capturing System" Proc. CVGIP 2008, I-Lan, Taiwan, ROC.
22. W-Y Chen, M-F Ho, C-L Huang, S. T. Lee and Clarence Cheng, "Detecting abandoned objects in video-surveillance system", Proc. CVGIP 2008, I-Lan, Taiwan, ROC.
23. Tim Liao, and Chung-Lin Huang, "Slip and Fall Detection using Spatio-temporal Characteristics of Human Object for Video Surveillance System," NCS 2009, Workshop on Image Processing, Computer Graphics and Multimedia Technologies, Nov 2009.
24. T-K Lin, and C-L Huang, "Digital Image Fogery Detection Using EM Algorithm", Proc. CVGIP 2009, , Nan-Tou, Taiwan, Aug. 23~25
25. G-C Yang and C-L Huang, "Copy-Move Forgery Detection in Digital Image," Proc. CVGIP 2009, Nan-Tou, Taiwan, Aug. 23~25.
26. B. C. Li, S. Y. Wang, and C. L. Huang, "Using Modified View-Based AAM to Reconstruct the Frontal Facial Image with Expression from Different Head Orientation" Proc. CVGIP 2010, Kaohsiung, Taiwan, Aug. 15~17, 2010.
27. Chung-Lin Huang, Shih-Chung Hsu, I-Chung Tsao, and Ben-Syuan Huang, "People Counting by using Ellipse Detection and Tracking," Proc. CVGIP 2011, NCCU, Ja-Yi, Taiwan, Aug. 20~22, 2011.

(c) International Conference Papers s(國際會議論文)

1. Tou, J. T., Huang, C. L., and Li, W. H., "Design of a Knowledge-Based System for Understanding Electrical Circuit Diagram," Proc. of the lst IEEE Conference on Artificial Intelligence Application, Denver, USA, Dec., 1984.
2. Tou, J. T. and Huang, C. L., "Recognition of 3-D Objects via Spatial Understanding of 2-D Image," Proc. of the 2nd IEEE Conference on Artificial Intelligence Application, Miami Beach, FL, USA, Dec., 1985.
3. Huang, C. L. and Tou, J. T., "Knowledge-Based Functional-Symbol Understanding in Electronic Circuit Diagram Interpretation," Proc. of SPIE Conference on Application of Artificial Intelligence III, Orlando, FL, USA, April 1-3, 1986.
4. Huang, C. L. and Tou, J. T., "Object Recognition via Shape Recovery and Orthographic Projection Views Generation," Proc. of International Comptuer Symposium, ICS-86, Tainan, Taiwan, ROC, Dec. 1986.
5. Huang, C. L. and Tou, J. T., "Automatic Generation of 3-D Pictorial Drawing from Intensity Image," Proc. of SPIE Conference on Application of Artificial Intelligence V, Orlando, FL, USA, May, 1987.
6. Tou, J. T., Li, W. H., Fan, K. C. and Huang, C. L., "Knowledge Base Approach for the Verification of CAD Database Generated by an Automatic Schematic Capture System," Proc. of the 24th Design Automation Conf., Miami, USA, June, 1987.
7. Huang, C. L., and Tou, J. T., "Feature Extraction from a Intensity Images," Proc. of SPIE Conf. on Visual Communication and Image Processing II, Boston, USA, Oct. 1987.
8. Huang, C. L., "3-D Industrial Parts Identification using the O. P. Views Generation Method," Proc. of the IAPR Workshop on Computer Vision, Tokyo, Japan, Oct. 1988.
9. Huang, C. L., "3-D Object Recognition for Industrial Parts Identification," Proc. of Intelligent Robotics and Computer Vision VII, SPIE Vol. 1002, Boston, USA, Nov. 1988.
10. Huang, C. L., "Orthographic Projection Views Generation from the Intensity Image," Proc. of Visual Communication and Image Processing III, SPIE Vol. 1001, Boston, USA, 1988.
11. Huang, C. L. and Wu, C. H., "Very-Low-Bandwidth Visual Communication for the Deaf," Proc. of the 6th Scandinavian Conf. on Image Analysis, Oulu, Finland, June 19-22, 1989.
12. Huang, C. L., "Model Generation and Inexact Matching for Object Identification," Proc. of Visual Communication and Image Processing IV, SPIE Vol. 1199, pp. 1640-1650, Boston USA, Nov. 1989.
13. Huang, C. L., "Pixel Classification with Neurocomputer," Proc. of the Automated Inspection and High-Speed Vision Architecture III, SPIE Vol. 1197, pp. 282-289, Boston, USA, Nov 1989.
14. Huang, C. L., "Shape Restoration and Contour Generation of the Straight Homogeneous Generalized Cylinder," Proc. 10th Int. Conf. on Pattern Recognition, Atlantic City, USA,

June 17-22, 1990, pp. 409-413.

15. Huang, C. L. and Wu, C. H. "Encoding of the Sign Language Image Sequence at Very-Low Rate," Proc. of Visual Communication and Image Processing'90, SPIE Vol. 1360, Lussanne, Switzrland, 1-4 Oct. 1990, pp. 1140-1150.
16. Cheng, T. Y and Huang, C. L., "Color Image Segmentation using Space Filter and Markov Random Field," Intelligent Robots and Computer Vision X, SPIE Proceedings Vol. 1607, Boston, USA, Nov., 1991.
17. Chang, I. C. and Huang, C. L., "Three Dimensional Polyhedral Objects Model Generation via Aspect Graph," Model-Based Vision Development and Tools, SPIE Proceedings Vol. 1609, Boston, Nov. 1991.
18. Huang, C. L. and Chen, C. W., "Human Facial Feature Extraction for Face Interpretation and Recognition," Proc. of the 11th Inter. Conf. on Pattern Recognition, Haque, The Netherlands, Aug. 30-Sept. 3, 1992.
19. Huang, C. L., Lien, C. C., and Lai, P. L., "Chinese Sign Language Understanding through Motion and Shape Analysis," Proc. of 2nd Singapore International Conference on Image Processing, Sept. 7-11, 1992, Singapore.
20. Huang, C. L. and Lien, C. C. "Directional 2-D Nonseparable Perfect Reconstruction Filter Banks," Proc. of 2nd Singapore International Conference on Image Processing, Sept. 7-11, 1992, Singapore.
21. Huang, C. L. and Hsu, C. Y., "A Motion Compensation for Video Signal Using Hierarchical Grid Interpolation Method," Proc. of 2nd Singapore International Conference on Image Processing, Sept. 7-11, 1992, Singapore.
22. Huang, C. L. and Lien, C. C., "The Design and Analysis of Directional 2-D Non-Separable Perfect Reconstruction Filter Banks for Subband Coding of Images and Video Signals," Proc. of the SPIE Conference on Visual Communication and Image Processing'92, Nov. 15-20, 1992, Boston, MA, USA.
23. Huang, C. L. and K. F. Shih, "Image Compression from Multi-resolution Edge Singularities", Proc. of IEEE Signal Processing and Communication Workshop, 20-22 Sept., 1993, Melbourne, Australia.
24. Hsia C. Y. and Huang, C. L., "Facial Expression Image Sequence Generation for Model-based Visual Communication," Proc. of IEEE Signal Processing and Communication Workshop, 20-22 Sept., 1993, Melbourne, Australia.
25. Wang, S. C. and Huang, C. L., "Motion and Structure from Dynamic Stereo," Proc. of Asian Conf. on Computer Vision'93, Nov. 23-25, 1993, Osaka, Japan.
26. Chang, I. C. and Huang, C. L., "Analysis of Heart Motion through Normal Direction-based Methods," Proc. of Asian Conf. on Computer Vision'93, Nov. 23-25, 1993, Osaka, Japan.
27. Huang, C. L. and Chen, Y. T., "Optical Flow Analysis Spatial-Temporal Filter," Proc. of Asian Conf. on Computer Vision'93, Nov. 23-25, 1993, Osaka, Japan.

28. Lien, C. C. Huang, C. L. and Chang, I. C., "Image Coding using the Directional ADPCM," Proc. of Appl. of Digital Imaging Processing XVII, SPIE Proceeding vol.2298, July 1994, San Diego, USA.
29. Chao, T. T. and Huang, C. L., "Motion-Compensated Spatio-Temporal Interpolation for Frame Rate Up-Conversion on Interlaced or Progressive Image Sequence," Proc. of SPIE Conf. on VCIP'94, Sept.25-29, 1994, Chicago, USA.
30. Chen K. C. and Huang, C. L., "Directional Moving Averaging Interpolation for Bilinear Texture Mapping," Proc. of SPIE Conf. on VCIP'94, Sept. 25-29, 1994, Chicago, USA.
31. Huang, C. L. and Chen. J. G., "Complex Subband Transform for Subband-Based Motion Estimation," Proc. IEEE ICASSP'95, May 8-12, 1995, Detroit, USA.
32. Lien C. C., Huang, C. L., and Chang I. C.,“ A New ADPCM Image Coder using Frequency Weighted Directional Filters,” Proc. of SPIE Conf. on VCIP'95, May. 24-26, 1995, Taiwan, ROC.
33. Tsai I. W., Lien, C. C. and Huang, C. L.,“Hybrid Cell-Loss Concealment Methods for MPEG-II-Based Packet Video,” Proc. of 1995 IPPR Conference on Computer Vision, Graphic and Image Processing, Aug. 20-23, 1995, Tao-Yuen, Taiwan, ROC.
34. Huang C. L. Huang W. Y., and Lien C. C., “Sign Language Recognition using 3-D Hopfield Neural Network,” Proc. IEEE ICIP-95, October 23-26, 1995, Washington D. C., USA.
35. Chang, I. C. and Huang, C. L., “Ribbon-Based Motion Analysis of Human Body Movement,” Proc. of 13th Int. Conf. on Pattern Recognition, Vienna, Austria, Aug. 25-29, 1996.
36. Huang, C. L. and Yang, W. C., “Object-Based Layer-Structure Very Low Bit Rate Video Coding,” Proc. of IEEE Int. Conf. on Image Processing-96, Lausanne, Switzerland, Sept. 16-19, 1996.
37. Huang, C. L. and Wu M. S.,“A Model-Based Complex Background Gesture Recognition System,” Proc. of IEEE Int. Conf. on System, Man and Cybernetics, Oct. 14-17, 1996, Beijing, China.
38. Huang C. L. and Huang W. Y., ”Modified 3-D Hopfield Neural Network for Gesture Recognition,” Proc. of IEEE Int. Conf. on Neural Network’97 Houston, TX, June 9-12, 1997.
39. Lien C. C. and Huang C. L., “The Model-Based Hand Posture Identification System,” *Proc. of Int. Sym. on Multimedia Inf. Pro*. ’97, Dec. 11-13, 1997, Taipei, Taiwan, ROC.
40. Chang, I. C. and Huang, C. L., “The Walking Human Motion Analysis using Hidden Markov Model,” *Proc. of Int. Sym. on Multimedia Inf. Pro.* ’97, Dec. 11-13, 1997, Taipei, Taiwan, ROC.
41. Lien, C. C. and Huang C. L., “The Model-based Dynamic Hand Posture Identification using Genetic Algorithm,” Proc. of the *3th ACCV*, January 8-10, 1998 Hong Kong.
42. Huang, C. L. and Chang B. I, “A Multi-resolution Image Registration for Multi-media Application,” Proc. of 1998 *IEEE ISCAS*, Monterey, CA, USA, May 1998.
43. Huang, C. L. and Wu M. S., “Gesture Image Sequence Interpretation Using Multi-PDM

Model and Hidden Markov Model," *Proc. IEEE ICASSP-99*, Phoenix, AZ, March 15-19, 1999.

44. Huang, C. L. and Lin, Y. W., "Automatic Taiwanese Municipal Color Map Reading System," Proc. 12th Conf. On Vision Interface, May 18-21, 1999 Trois-Rivieres, Canada.
45. Huang C. L. and Hsu S. H., "Road Sign Interpretation using Matching Pursuit Method," *ICPR 2000*, Barcelona, Spain, Aug. 2000.
46. Peng J. K., Huang C. L. , and Hwang W. L., " Very-Low-Bit Rate Video Coding using Matching Pursuit and Codebook Adaptation," Proc. *Int. Conf. on Image Processing*, Sept. 10-13, 2000, Vancouver Canada.
47. Chang, I. C., Huang C. L., and Lien C. C., "Posture Identification through Inverse Kinematics Method," *Asian Conf. on Computer Vision*, Taipei, Taiwan, 2000.
48. Liao, B. Y. and Huang C. L., "Fast Scene Change Detection based on Intensity and Motion Characteristics," *Asian Conf. on Computer Vision*, Taipei, Taiwan, 2000.
49. Hsu S. H. and Huang C. L., "Road Sign Detection and Recognition using Matching Pursuit Method," *Asian Conf. on Computer Vision*, Taipei, Taiwan, 2000.
50. Huang, C. L. and Lin, C. C.," Model-Based Human Body Analysis for MPEG IV Video Encoder," IEEE Int. Conf. on *Information Technology: Coding and Comput*ing, Apri; 2-4, 2001, Las Vegas, USA.
51. Huang, C. L. and Chang, C. Y., "Video Summarization using Hidden Markov Model," IEEE Int. Conf. on *Information Technology: Coding and Computin*g, April 2-4, 2001, Las Vegas, USA.
52. Huang C. L. and Liang, S. "A Model-driven Joint Channel Source Coding for MPEG-2 Video Transmission," *ICASSP 2002*, May 13-17, Orlando, USA.
53. Fu C. M., Hwang W. L., and Huang, C. L., "Clock Synchronization for Fractal Modulation," *ICASSP 2002*, May 13-17, Orlando, USA.
54. H. T. Chan and Huang, C. L., "Multiple description and matching pursue coding for video transmission over the internet," *ICASSP 2003*, Hong-Kong.
55. H. C. Shih and Huang C. L., "A semantic network modeling for understanding baseball video," *ICASSP 2003*, Hong-Kong.
56. Huang C. L. and Chung, C. Y., "A Real-Time Model-Based Human Motion Analysis System" *ICME 2003*, Baltimore, USA, July 2003.
57. Fu C. M., Hwang W. L., and Huang, C. L., "Timing Acquisition for Wavelet-Based Multirate Transmissions," *Globalcom 2003*, San Francisco, USA, Dec. 2003.
58. Shih H. C. and Huang, C. L. "Image Analysis and Interpretation a\for Semantics Categorization in Baseball Video," IEEE Int. Conf. on Information Technology, Las Vegas, April 28-30, 2003.
59. Huang, C. L., Tseng, T. H. and Shih, H. C. "A Model-Based Articulated Human Motion Tracking System" ACCV 2004, Jeju, Korea, Jan. 27~30, 2004.

60. Fu C. M., Hwang W. L. and Huang C. L., "Timing Acquisition for Fractal Modulation In Gaussian White And $1/F$ Channels", IEEE *ICASSP 2004*, Montreal Canada, May 17-21, 2004.
61. Liang, C. H. and Huang, C. L., "Content-Based Adaptive Media Player For Network Video," IEEE *ISCAS 2004*, Vancouver, Canada, May 23-26, 2004.
62. Shih H.C. and Huang, C. L., "Detection of Highlight in Baseball Video Program," IEEE *ICME 2004*, Taipei, Taiwan, 27-30 June, 2004.
63. Huang, C. L. and Liao, W. C., "A vision-based vehicle identification system," Proc. *ICPR 2004*, Cambridge, United Kingdom, 23-26 August, 2004.
64. Shih, H. C. and Huang, C. L., "Content-based multi-functional video retrieval system," Int. Conf. on Consumer Electronics, ICCE 2005, Las Vegas, Jan. 8-12, 2005.
65. Fu C. M., Hwang, W. L., Huang, C. L., "Efficient Post-Compression Error-Resilent 3D-Scalable Video Transmission for Packet Erasure Channels," Proc. IEEE *ICASSP 2005*, Philadelphia, PA, March 18-23, 2005.
66. Chao, C. Y, Shih, H. C., and Huang, C. L., "Semantics-based Highlight Extraction of Soccer Program using DBN," IEEE *ICASSP 2005*, Philadelphia, PA, March 18-23, 2005.
67. Shih H. C. and Huang, C. L., "Content-Based Scalable Video Retrieval System" IEEE *ISCAS 2005*, May 23-26, Kobe, Japan.
68. Chang, H. Y. Fu, C. M. and Huang, C. L., "Real-time vision-based preceding vehicle detection and tacking" IEEE *Intelligent Transportation Symposium*, June 5-7, Las Vegas, USA.
69. Shen,B.-C., Shih H.-C., and Huang C.-L., "Real-time Human Motion Capturing System" Proc. IEEE *ICIP 2005*, Genova, Sept. 11-14, 2005.
70. Huang, C. L., Shen, B. C., Shih H. C., "A Real-Time Vision-Based Human Motion Capturing", VCIP 2005, Beijing, China, 12-15 July, 2005.
71. Chang I-C., Yang T-L., and Huang C.-L., "Environment Matting of Transparent Objects Based on Frequency-Domain Analysis," PCM2005, LNCS 3767, pp. 37-48, 2005.
72. Chen, C.-L., Ho, M.-F, and Huang, C.-L., "Adaptive Rate Control For H.264/Avc Using Kalman Filter" Proc. of IEEE ISCAS 2006, Kos Island, Greece, May 21-24, 2006.
73. Huang C.-L., Shih H.-C., and Chen C.-L., "Shot and Scoring Events Identification of Basketball Videos " Proc. of IEEE ICME 2006, Toronto, July 9-12, 2006.
74. Fu C.-M., Huang, C.-L., and Chen, Y.-S. "Vision-Based Preceding Vehicle Detection and Tracking" Proc. of ICPR 2006, Hong-Kong, 2006.
75. Tsai Y.-T., Shih H.-C., and Huang C.-L., "Multiple Human Objects Tracking in Crowded Scenes" Proc. of ICPR 2006, Hong-Kong, 2006.
76. Lien K.-C. and Huang C.-L., "Multi-View-Based Cooperative Tracking of Multiple Human Objects In Cluttered Scenes" Proc. of ICPR 2006, Hong-Kong, 2006.
77. Lee Chun-Ku, Ho, Meng-Fen, Wen Wu-Sheng, and Huang, Chung-Lin, "Abnormal Event

Detection in Video using N-cut Clustering" IEEE Int. Conf. on *Intelligent Information Hiding and Multimedia Signal Processing*, Dec 18 - 20, 2006, USA

78. Cheng M-H, Ho M-F, and Huang C-L, "Gait Analysis For Human Identification Through Manifold Learning and HMM," *Workshop on Motion and Video Computing*, Feb 23-24, Austin TX, USA.
79. Shih, H.-C. and Huang, C-L., "A Robust Superimposed Caption Box Content Understanding for Sports Videos," IEEE Int. Workshop on Multimedia Processing and Retrieval, San Diego, CA, USA, Nov. 11-13, 2006.
80. H. C. Shih, and C. L. Huang, "Semantics Interpretation of Superimposed Captions in Sports Videos," *in Proc. IEEE-**MMSP 2007***, Chania, Greece, Oct. 1-3, 2007.
81. H. C. Shih, J. N. Hwang, and C. L. Huang, "Video Attention Ranking Using Visual and Contextual Attention Model for Content-based Sports Videos Mining," *in Proc. IEEE-**MMSP 2007***, Chania, Greece, Oct. 1-3, 2007.
82. H. C. Shih, and C. L. Huang, "A Robust Superimposed Caption Box Content Understanding for Sports Videos," *in Proc. IEEE-**MIPR(ISM) 2006***, San Diego, USA, Dec. 11-13, 2006.
83. Cheng, Ming-Hsu , Ho, Meng-Fen, Huang, C. L. "Gait Analysis for Human Indentification through Manifold Learning and HMM," IEEE Int. Conf. on Circuits and Systems 2007, New Orleans, USA, May 2007.
84. Chien C.-Y., Fu C.-M., and Huang, C. L. "A Vision-Based Real-Time Pointing Arm Gesture Tracking And Recognition System" IEEE Int. Conf. on Multimedia and Expos. Beijing, China, July 2-5, 2007.
85. Chen H.-Y., Fu C.-M., and Huang, C. L. "Hybrid-Boost Learning For Multi-Pose Face Detection and Facial Expression Recognition", IEEE Int. Conf. on Multimedia and Expos. Beijing, China, July 2-5, 2007.
86. Che W.-G., Hwang, W. L., Huang, C. L. "An Automatic Eye Wink Interpretation System For The Disable" IEEE Int. Conf. on Multimedia and Expos. Beijing, China, July 2-5, 2007.
87. W-S Wen, M-F Ho and C-L Huang, "People Tracking and Counting for Applications in Video Surveillance System," ICALIP 2008, July 07~09, 2008, Shanghai, China.
88. Yueh-Shiun Lee, C-L Huang and W-L Huang , "Iris Recognition Using Dynamic Programming Matching Pursuit," ICALIP 2008, July 07~09, 2008, Shanghai, China.
89. C-Y Weng , M-F Ho and C-L Huang, " A Vision-based Hand Motion Parameter Capturing for HCI" ICALIP 2008, July 07~09, 2008, Shanghai, China.
90. M-F Ho, Ke-Zen Chen, and C-L Huang, "Gait Analysis for Human Walking Paths and Identities Recognition" *IEEE Int. Conf. on Multimedia and Expos.*2009 June 28~July 3, 2009, New York City, USA.
91. Tim-kun Lin and Chung-Lin Huang,"Digital Image Forensics using EM Algorithm" PCM-2009 Bankkok, Tailand, Dec.15~18, 2009.

92. Qing-Chu Yang and Chung-Lin Huang,"Copy-Paste Forgery Detection in Digital Images" PCM-2009 Bankkok, Tailand, Dec.15~18, 2009.
93. Chung-Lin Huang and Shao-Yung Huang, "Face Image Illumination Normalization for face Recognition" SPIE Eletronic Imaging, *Human Vision and Electronic Imaging XV*, Jan. 2010
94. Tim Liao and Chung-Lin Huang,"Slip and Fall Events Detection by Analyzing the Integrated Spatiotemporal Energy Map" The 20th Int. Conf. on Pattern Recognition, ICPR 2010, Istanbul, Turkey Aug. 23~26, 2010.
95. Bo-Lin Tsai and Chung-Lin Huang,, "Vision-based Taiwanese Sign Language Recognition System" The 20th Int. Conf. on Pattern Recognition, ICPR 2010, Istanbul, Turkey Aug. 23~26, 2010.
96. Guo-Xiang. Hong Chung-Lin Huang Shih-Chung Hsu, and Chi-Hung Tsai, "Optimal Training Set Selection For Video Annotation" 4th Pacific-Rim Symposium on Image and Video Technology, Singapore, Nov 14~17, 2010, Singapore.
97. I-Ting Sun, Shih-Chung Hsu, Chung-Lin Huang and Wen-Thong Chang, "A Hybrid Codebook Background Model for Background Subtraction" ICSPS2011, Aug. 27~28, Yanti, China.
98. Wing-Pang Lin, Shih-Chung Hsu, Chung-Lin Huang and Wen-Thong Chang, "Human Object Walking Motion Parameters Estimation from A Single View", ICSPS2011, Aug. 27~28, Yanti, China.
99. I-Ting Sun, Shih-Chung Hsu, Chung-Lin Huang, "A Hybrid Codebook Background Model For Background Subtraction" SiPS 2011: *IEEE Workshop on Signal Processing Systems*, Oct 4~7, Beirut, Lebanon.
100. Wei Chen, Ke-Wei Lin , Quan-Xi Yang , and Chung-Lin Huang, " Car Identification using Motion Vector in H.264 Compressed Video", VCIP 2011, Nov 6~9, Tainan, Taiwan.