

論文著述：

Journal Papers and Book Chapters

1. Chih-Ming Chen, Chia-Wen Lin, and Yung-Chang Chen, "Cross-Layer Packet Retry Limit Adaptation for Video Transport over Wireless LANs", accepted by *IEEE Transactions on Circuits and Systems for Video Technology*.
2. C. K. Hsieh, S. H. Lai and Y. C. Chen, "An Optical Flow Based Approach to Robust Face Recognition under Expression Variations", *IEEE Trans. on Image Processing*, Vol.19, No. 1, pp. 1-8, January 2010. (SCI, EI)
3. Guan-Yu Chen and Yung-Chang Chen, "3D Average-Shape Atlas of Drosophila Brain and Its Applications", Book Chapter in "Pattern Recognition and Machine Vision, In Honor and Memory of Professor King-Sun Fu", pp. 181-195, River Publishers Series in Information Science and Technology, 2010. (Invited Book Chapter)
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5. Guan-Yu Chen, Ying-Cheng Chen, Chu-Fang Lin, An-Chi Hu, Cheng-Chi Wu and Yung-Chang Chen, "Template-Based Automatic Segmentation of Drosophila Mushroom Bodies", *Journal of Information Science and Engineering*, Vol. 24, No. 1, pp. 99-113 (January 2008). (SCI)
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12. C. K. Hsieh and Y. C. Chen, "Partial linear regression for speech-driven talking head application", *Signal Processing: Image Communication* 21, pp. 1-12, 2006. **(SCI, EI)**
13. W. L. Lee, Y. C. Chen, Y. C. Chen, and K. S. Hsieh, "Unsupervised Segmentation of Ultrasonic Liver Images by Multiresolution Fractal Feature Vector", *Information Sciences* 175, pp. 177-199, 2005. **(SCI, EI)**
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Patents

1. Method and System for Human Face Detection. ROC Patent no. 127588.
2. Method and System of Automatic Spectral Responsivity Measurement for Digital Color Cameras. ROC Patent no. 131582.
3. Method of Designing a Multichannel Filtering System for Measuring Digital Camera's Spectral Responsivities. ROC Patent no. 159466.
4. Face Assisted Video Coding and Video Transcoding. ROC Patent no. 178082.
5. Method for Composing Confocal Microscopy Image with Higher Resolution. US and ROC patents (pending)

6. Bio-Expression System and the Method of the Same. ROC Patent no. 291630.
7. Image Stitching of the Drosophila Brain Images from Confocal Microscope, US and ROC patents (pending).
8. Image Processing Method for Feature Retention and the System of the Same, US and ROC patents (pending).

Technical Presentations

1. "Neurogenomic Mapping and 3D Image Processing System for Interactive Brain Circuitry Database", Keynote Speech at 19th CVGIP, August 2006.
2. "Video and Speech-driven Intelligent Man-machine Interface", Invited Talk at International Visual/Audio Communication Forum, ITRI, Hsin-Chu, December 2003.
3. "Third Generation Video Surveillance System", Keynote Speech at Global DVR Forum'02, Taipei World Trade and Conference Center, March 2002.
4. "Sensor Integration for Robot Vision", Invited Talk at Department of Electrical Engineering, University of District of Columbia, Washington, D.C., February, 1990.
5. "Sensing Data Fusion for 3-D Object Recognition" Invited Talk at Beckman Institute, University of Illinois, Urbana-Champaign, IL, Nov. 1989