

國立成功大學著作目錄表 (2025/12/02)

系(所): 資訊工程學系所

教師姓名: 連震杰

I. Journal Papers:

1. K.T. Wu, P.C. Chen, W.Y. Chou, C.D. Chang, and J.J. Lien, "Diagnostic Accuracy and Interobserver Reliability of Rotator Cuff Tear Detection with Ultrasonography Are Improved with Attentional Deep Learning," *Arthroscopy*, Vol. 41, No. 8, pp. 2699-3276, Aug. 2025. (SCIE) Impact Factor= 5.4, Ranking= 6% (18/292)
2. C.S. Lee, J.J. Lien, K. Chain, L.C. Huang and Z.W. Hsu, "Federated Learning-Based CT Liver Tumor Detection Using a Teacher-Student SANet with Semisupervised Learning," *BMC Medical Imaging*, Jul. 2025. (SCIE) Impact Factor=3.2, Ranking= 24% (51/212)
3. H.C. Yin, C.C. Chang, Z.W. Wang, C.Y. Lin, Y.T. Yen, Y.L. Tseng, J.C. Chen, and J.J. Lien, "False Positive Reduction for Lung Nodule Detection Using 3D Channel-Spatial Attention Model with Multi-Descriptor-Based Refinement," *Expert Systems with Applications*, Jul. 2025. (SCIE) Impact Factor=7.5, Ranking=7% (7/106)
4. S.M. Yin, J.J. Lien, and I.M. Chiu, "Deep Learning Implementation for Extrahepatic Bile Duct Detection During Indocyanine Green Fluorescence-Guided Laparoscopic Cholecystectomy: Pilot Study," *BJS Open*, Vol. 9, Issue 2, Apr. 2025. (SCIE) Impact Factor=3.4, Ranking=11.9% (35/292)
5. C.S. Lee, Y. L. Tseng, C.C. Chang, Y.T. Yen, C.T. Tu, S.M. Guo and J.J. Lien, "Federated Online Learning with Filters for Lung Nodule Segmentation in Low-Dose Computed Tomography Images," *IEEE Intelligent Systems*, Mar. 2025. (SCIE) Impact Factor=5.6, Ranking=6.3% (120/1902)
6. C.Y. Lin, MD., S.M. Guo, J.J. Lien, T.Y. Tsai, Y.S. Liu, C.H. Lai, H.I. Lin, PhD., C.C. Chang, MD., and Y.L. Tseng, MD., Ph.D., "Development of a Modified 3D Region Proposal Network for Lung Nodule Detection in Computed Tomography Scans: A Secondary Analysis of Lung Nodule Datasets," *Cancer Imaging*, Mar. 2024. (SCIE) Impact Factor=5.605 (非通訊作者)
7. W.R. Tang, MD., W. Su, J.J. Lien, C.C. Chang, MD., Y.T. Yen, MD., and Y.L. Tseng, MD., "Development of a Real-time RGB-D Visual Feedback-Assisted Pulmonary Rehabilitation," *Heliyon*, Vol. 10, No. 1, Jan. 2024. (SCIE) Impact Factor=4.0, Ranking=31.5% (23/73) (非通訊作者)
8. C.Y. Lin, MD., S.M. Guo, J.J. Lien, W.T. Lin, Y.S. Liu, C.H. Lai, I.L. Hsu, C.C. Chang, MD., and Y.L. Tseng, MD. Ph.D., "Combined Model Integrating Deep Learning, Radiomics, and Clinical Data to Classify Lung Nodules at Chest CT," *Radiologia Medica*, Vol. 129, No. 1, pp. 56-69, Jan. 2024. (SCIE) Impact Factor =6.313, Ranking=5.92 (8/135) (非通訊作者)
9. C.T. Tu, S.H. Hsieh, K.L. Chen, and J.J. Lien, "Personalized Smile Synthesis Using Attention-guided Global Parametric Model and Local Non-parametric Model," *Multimedia Tools and Applications*, Vol. 82, No. 14, Jun. 2023. (SCIE) Impact Factor=3.0, Ranking=15.9% (10/63) (非通訊作者)
10. E.Y. Lin, J.C. Chen, and J.J. Lien, "Intelligent Tapping Machine: Tap Geometry Inspection," *Sensors*, Vol. 23, No. 18, Sep. 2023. (SCIE/EI) Impact Factor=3.9, Ranking=33.3% (29/87)
11. B.H. Lin, J.C. Chen, and J.J. Lien, "Defect Inspection Using Modified YoloV4 on a Stitched Image of a Spinning Tool," *Sensors*, Vol. 23, No. 9, May. 2023. (SCIE/EI) Impact Factor =3.847, Ranking=33.3% (29/87)
12. E.Y. Lin, C.T. Tu, and J.J. Lien, "Nut Geometry Inspection Using Improved Hough Line and Circle Methods," *Sensors*, Vol. 23, No. 8, Apr. 2023. (SCIE/EI) Impact Factor =3.847, Ranking=33.3% (29/87)
13. H.C. Yin and J.J. Lien, "Cascaded Segmentation U-Net for Quality Evaluation of Scraping Workpiece," *Sensors*, Vol. 23, No. 2, Jan. 2023. (SCIE/EI) Impact Factor=3.847, Ranking=33.3% (29/87)
14. C.Y. Lin, MD., W.R. Tang, MD., P.C. Chiang, MD., and J.J. Lien, P.Y. Tseng, Y.S. Liu, C.C. Chang, MD., and Y.L. Tseng, MD., Ph.D., "Improving Puncture Accuracy in Percutaneous CT-Guided Needle Insertion with Wireless Inertial Measurement Unit: A Phantom Study," *European Radiology*, Vol. 33, No. 5, pp. 3156-3164, May. 2023. (SCIE) Impact Factor=1.730, Ranking=5.5% (17/308) (非通訊作者)
15. M.T. Le and J.J. Lien, "Lightweight Robotic Grasping Model Based on Template Matching and Depth Image," *IEEE Embedded Systems Letters*, Vol. 14, No. 4, pp. 199-202, Dec. 2022. (SCIE & EI) Impact Factor = 1.524. Ranking=74.5% (82/110).
16. M.T. Le and J.J. Lien, "Robot Arm Grasping Using Learning-based Template Matching and Self-Rotation Learning Network," *The International Journal of Advanced Manufacturing Technology*, Vol. 121, No. 3, pp. 1915-1926, Jul. 2022. (SCIE) Impact Factor=3.563, Ranking=43.07% (28/65)
17. C.W. Wu, M.D. Shieh, J.J. Lien, J.F. Yang, W.T. Chu, T.H. Huang, H.C. Hsieh, H.T. Chiu, K.C. Tu, Y.T. Chen, S.Y. Lin, J.J. Hu, C.H. Lin, C.S. and Jheng, "Enhancing Fan Engagement in a 5G Stadium with AI-Based Technologies and Live Streaming," *IEEE Systems Journal*, Vol. 16, No. 4, pp. 6590-6601, Dec. 2022. (SCIE & EI) Impact Factor=4.8, Ranking=25.3% (70/276) (非通訊作者)
18. G.H. Lin, C.Y. Huang, S.C. Lee, K.L. Chen, J.J. Lien, M.H. Chen, Y.H. Huang, and C.L. Hsieh, "A 10-item Fugl-Meyer Motor Scale Based on Machine Learning," *Physical Therapy*, Vol. 101, No. 4, Apr. 2021. Impact Factor =3.140, Ranking=11.7% (8/68) (非通訊作者)

19. M.T. Le, S. Jang, and J.J. Lien, "3D Visual-Guided Robot Arm Control for a Warehouse Automation System," 台灣機器人學會 Robotics Society of Taiwan (RST), iRobotics Journal, Vol. 3, No. 2, 2021. (Invited)
20. M.T. Le, C.T. Tu, S.M. Guo and J.J. Lien, "A PCB Alignment System Using RST Template Matching with CUDA on Embedded GPU Board," Sensors, Vol. 20, pp. 2736, May. 2020. (SCIE/EI) IF=3.847, R=29.6% (19/64).
21. 呂冠儒、郭淑美、陳淑瑾、涂澣琿、連震杰, "視覺導引機械手臂：使用多階深度卷積神經網路估算二維影像之物體三維位置," IPPR Images and Recognition, Vol. 24, No. 3, pp. 33-53, 2018.
22. C.T. Tu, P.C. Lin, and J.J. Lien, "Free-hand Sketches for 3D Model Retrieval Using Cascaded LSDA," Multimedia Tools and Applications, pp. 11669-11685, May. 2017. (SCIE/EI) Impact Factor = 2.10, Ranking =52.2% (81/155)
23. J.C. Chen, P.H. Wu, and J.J. Lien, "Discriminant Metric Learning Approach for Face Verification," KSII Transactions on Internet and Information Systems, Vol. 9, No. 2, pp. 742-762, Feb. 2015. (SCIE) Impact Factor = 0.61, Ranking =92.5% (137/148)
24. C.C. Tseng, J.C. Chen, C.H. Fang, and J.J. Lien, "Human Action Recognition Based on Graph-Embedded Spatio-Temporal Subspace," Pattern Recognition, Vol. 45, No. 10, pp. 3611-3624, Oct. 2012. (SCIE & EI) Impact Factor = 2.682, Ranking =7.29% (18/247)
25. C.C. Tseng and J.J. Lien, "Colored Exaggerative Caricature Creation Using Inter-and Intra-Correlations of Feature Shapes and Positions," Image and Vision Computing, Vol. 30, No. 1, pp. 15-25, Jan. 2012. (SCIE & EI) Impact Factor = 1.578, Ranking =21% (21/99)
26. J. Y. Wu and J.J. Lien, "3D Facial Surface Reconstruction Using Integrated Orthographic Projection Models to Approximate Perspective Projection Model," International Journal of Innovative Computing, Information and Control, Vol. 8, No. 1B, pp. 807-825, Jan. 2012. (SCIE & EI) Impact Factor = 1.667, Ranking = 20% (12/60)
27. W.S. Chu, J.C. Chen, and J.J. Lien, "Kernel Discriminant Transformation for Image Set-Based Face Recognition," Pattern Recognition, Vol. 44, No. 8, pp. 1567-1580, Aug. 2011. (SCI & EI) Impact Factor = 2.682, Ranking =7.29% (18/247)
28. T.H. Wang, C.W. Fang, M.C. Sung, and J.J. Lien, "Photography Enhancement Based on the Fusion of Tone and Color Mappings in Adaptive Local Region," IEEE Transactions on Image Processing, Vol. 19, No. 12, pp. 3089-3105, Dec. 2010. (SCI & EI) Impact Factor = 2.918, Ranking = 5.26% (13/247)
29. C.T. Tu and J.J. Lien, "Automatic Location of Facial Feature Points and Synthesis of Facial Sketches Using Direct Combined Model," IEEE Transactions On Systems Man and Cybernetics Part B-Cybernetics, Vol. 40, No. 4, pp. 1158-1169, Aug. 2010. (SCI & EI) Impact Factor = 2.361, Ranking = 11.8% (2/17)
30. W.T. Su, J.C. Chen, and J.J. Lien, "Region-Based Image Retrieval System with Heuristic Pre-Clustering Relevance Feedback," Expert Systems with Applications, Vol. 37, No. 7, pp. 4984-4998, Jul. 2010. (SCI & EI) Impact Factor = 1.926, Ranking = 20% (15/75)
31. J.C. Chen and J.J. Lien, "A View-Based Statistical System for Multi-View Face Detection and Pose Estimation," Image and Vision Computing, Vol. 27, No. 9, pp. 1252-1271, Aug. 2009. (SCI & EI) Impact Factor = 1.496, Ranking = 31% (72/229)
32. C.C. Wang and J.J. Lien, "Pedestrian Detection System Using Cascaded Boosting with Invariance of Oriented Gradients," International Journal of Pattern Recognition and Artificial Intelligence, Vol. 23, No. 4, pp. 801-823, Jun. 2009. (SCI & EI) Impact Factor = 0.66, Ranking = 80.8% (76/94)
33. T.H. Wang and J.J. Lien, "Facial Expression Recognition System Based on Rigid and Non-Rigid Motion Separation and 3D Pose Estimation," Pattern Recognition, Vol. 42, No. 5, pp. 962-977, May. 2009. (SCI & EI) Impact Factor = 3.279, Ranking = 7% (17/229)
34. C.W. Fang and J.J. Lien, "Rapid Image Completion System Using Multiresolution Patch-Based Directional and Nondirectional Approaches," IEEE Transactions on Image Processing, Vol. 18, No. 12, pp. 2769-2779, Dec. 2009. (SCI & EI), Impact Factor = 3.315, Ranking = 6.55% (15/229)
35. C.C. Wang and J.J. Lien, "Automatic Vehicle Detection Using Local Features – A Statistical Approach," IEEE Transactions on Intelligent Transportation Systems, Vol. 9, No. 1, pp. 83-96, Mar. 2008. (SCI & EI) Impact Factor = 2.844, Ranking =2% (2/91)
36. H.C. Hsin, J.J. Lien, and T.Y. Sung, "A Hybrid SPIHT-EBC Image Coder," Special Issue of IMECS, ICIE_13, pp. 1854-1857, IAENG Journal publisher, 2007. (非通訊作者)
37. J.J. Lien, T. Kanade, C.C. Li and J.F. Cohn, "Detection, Tracking, and Classification of Action Units in Facial Expression," IEEE Journal of Robotics and Autonomous Systems, Special Issue: Face Expression in Human-Robot Interaction, System 31, pp. 131-146, May. 2000. (Invited Paper) (SCI) Impact Factor = 0.415, Ranking = 48% (21/44)
38. J.F. Cohn, A.J. Zlochower, J.J. Lien, and T. Kanade, "Automated Face Analysis by Feature Point Tracking Has High Concurrent Validity With Manual FACS Coding," Journal of Psychophysiology, 35(1), Jan. 1999. (SCI & EI) Impact Factor = 0.537, Ranking = 78% (156/201)
39. Adena J Zlochower, Jeffrey F Cohn, James J.J. Lien, Takeo Kanade, "Automated Face Coding: A Computer-Vision Based Method of Facial Expression Analysis in Parent-Infant Interaction," Journal of Infant Behavior and Development, 21(16), 1998.

40. F Cohn, AJ Zlochow, J.J. Lien, YT Wu, T Kanade, "Automated Face Coding: A Computer-Vision Based Method of Facial Expression Analysis," Journal of Psychophysiology, 35(1),1997.

(Lecture Notes in Computer Science)

41. C.H. Fang, J.C. Chen, C.C. Tseng, and J.J. Lien, "Human Action Recognition Using Spatio-Temporal Classification," Journal: Lecture Notes in Computer Science, 5995, pp. 98-109, 2010, Springer-Verlag Berlin Heidelberg.
42. S.H. Hsieh, C.W. Fang, T.H. Wang, C.H. Chu, and J.J. Lien, "Weighted Map for Reflectance and Shading Separation Using a Single Image," Journal: Lecture Notes in Computer Science, 5996, pp. 85-95, 2010, Springer-Verlag Berlin Heidelberg.
43. S.F. Lui, J.Y. Wu, H.S. Mao, and J.J. Lien, "Learning-Based Super-Resolution Using One Single Image with Multi-Resolution Wavelet Synthesis," Journal: Lecture Notes in Computer Science, 4843, pp. 96-105, 2007, Springer-Verlag Berlin Heidelberg.
44. M.C. Sung, T.H. Wang, and J.J. Lien, "High Dynamic Range Scene Realization Using Two Complementary Images," Journal: Lecture Notes in Computer Science, 4843, pp. 261-270, 2007, Springer-Verlag Berlin Heidelberg.
45. C.C. Wang and J.J. Lien, "AdaBoost Learning for Human Detection Based on Histograms of Oriented Gradients," Journal: Lecture Notes in Computer Science, 4843, pp. 885-895, 2007, Springer-Verlag Berlin Heidelberg.
46. W.S. Chu, J.C. Chen, and J.J. Lien, "Kernel Discriminant Analysis Based on Canonical Difference for Face Recognition in Image Sets," Journal: Lecture Notes in Computer Science, 4843, pp. 700-711, 2007, Springer-Verlag Berlin Heidelberg.
47. T.H. Lai, T.H. Wang, and J.J. Lien, "Incremental Perspective Motion Model for Rigid and Non-rigid Motion Separation," Journal: Lecture Notes in Computer Science, 4872, pp. 613-624, 2007, Springer-Verlag Berlin Heidelberg.
48. C.C. Tseng and J.J. Lien, "Synthesis of Exaggerative Caricature with Inter and Intra Correlations," Journal: Lecture Notes in Computer Science, 4843, pp. 314-323, 2007, Springer-Verlag Berlin Heidelberg.
49. C.W. Fang and J.J. Lien, "Fast Directional Image Completion," Journal: Lecture Notes in Computer Science, 4872, pp. 48-61, 2007, Springer-Verlag Berlin Heidelberg.
50. C.T. Tu and J.J. Lien, "Facial Occlusion Reconstruction: Recovering Both the Global Structure and the Local Detailed Texture Components," Journal: Lecture Notes in Computer Science, 4872, pp. 141-151, 2007, Springer-Verlag Berlin Heidelberg.
51. J.Y. Wu and J.J. Lien, "Using the Orthographic Projection Model to Approximate the Perspective Projection Model for 3D Facial Reconstruction," Journal: Lecture Notes in Computer Science, 4872, pp. 462-473, 2007, Springer-Verlag Berlin Heidelberg.
52. C.C. Wang and J.J. Lien, "Automatic Vehicle Detection Using Statistical Approach," Journal: Lecture Notes in Computer Science, 3852, pp 171-182, 2006, Springer-Verlag Berlin Heidelberg. (SCI & EI) Impact Factor = 0.415, Ranking = 79% (56/71)
53. C.W. Fang and J.J. Lien, "Fast Image Replacement Using Multi-Resolution Approach," Journal: Lecture Notes in Computer Science, 3852, pp. 509-520, 2006, Springer-Verlag Berlin Heidelberg. (SCI & EI) Impact Factor = 0.415, Ranking = 79% (56/71)
54. Y.T. Tsai and J.J. Lien, "Efficient Object Segmentation Using Digital Matting for Mpeg Video Sequences," Journal: Lecture Notes in Computer Science, 3852, pp. 591-601, 2006, Springer-Verlag Berlin Heidelberg. (SCI & EI) Impact Factor = 0.415, Ranking = 79% (56/71)
55. W.T. Su and J.J. Lien, "Heuristic Pre-Clustering Relevance Feedback in Region-Based Image Retrieval," Journal: Lecture Notes in Computer Science, 3852, pp. 294-304, 2006, Springer-Verlag Berlin Heidelberg. (SCI & EI) Impact Factor = 0.415, Ranking = 79% (56/71)

II. Book Chapters:

1. C.T. Tu and J.J. Lien, Pattern Recognition, Machine Intelligence and Biometrics - Facial Occlusion Reconstruction Using Direct Combined Model, Chapter 20, pp. 527~544, HEP/Springer, 2011. ISBN-13: 978-364-222-406-5
2. C.C. Wang and J.J. Lien, 車載通訊原理、服務與應用 - 車輛檢測的智慧型視覺系統, Chapter 15, pp.15-1~15-18, 台灣東華書局股份有限公司, 2011. ISBN-13: 978-957-483-662-8
3. C.C. Wang and J.J. Lien, 車載通訊控制與設計 - 即時車輛監視系統開發, Chapter 12, pp.185~206, 台灣東華書局股份有限公司, 2011. ISBN-13: 978-957-483-656-7
4. J.F. Cohn, A. Zlochow, J.J. Lien, T. Kanade, What The Face Reveals - Automated Face Analysis by Featured Point Tracking Has High Concurrent Validity With Manual FACS Coding, Chapter 17, pp. 371~387, Oxford University Press, 2005. ISBN 0-19-517964-1
5. J.F. Cohn, A. Zlochow, J.J. Lien, T. Kanade, and W. Hau, Automated Face Analysis, Progress in Infancy Research, Vol. 1, Chapter 5, pp. 155~182, Lawrence Erlbaum Associates, Inc., Jan. 2000. ISBN 0-8058-3493-1

III. International Conference Papers: (4 Best Paper Awards 以及一篇 ACCV 被推薦競爭最佳論文獎, 推薦率約 1% (8 篇/640 篇))

- CVPR (IEEE Computer Vision and Pattern Recognition).
- ACCV (Asian Conference on Computer Vision).
- FG (IEEE International Conference on Automatic Face and Gesture Recognition).
- ICIP (IEEE International Conference on Image Processing).
- ICME (IEEE International Conference on Multimedia and Expo).
- PSIVT (IEEE Pacific Rim Symposium on Image Video and Technology).
- VISAPP (International Conference on Computer Vision Theory and Applications).

- IROS (IEEE International Conference on Intelligent Robotics and Systems).
- SMC (IEEE International Conference on Systems, Man, and Cybernetics).
- CASE (IEEE International Conference on Automation Science and Engineering)
- ICSSE (International Conference on System Science and Engineering).
- ICECET (International Conference on Electrical, Computer and Energy Technologies)
- IIHMSP (Intelligent Information Hiding and Multimedia Signal Processing)

1. T.Y. Hu and J.J. Lien, "Monocular 3D Volleyball Trajectory via Geometric Constraints," Springer International Conference on Intelligent Information Hiding and Multimedia Signal Processing (IIHMSP), Taiwan, Oct. 2025. **(Oral, Best Paper Award)**
2. H.Y. Lin, J.J. Lien, and Y.N. Chang, "Machine Learning in Sports Analytics: Volleyball Match Outcome Prediction," Proceedings of the International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECME), Male, Maldives, Nov. 4-6, 2024. (非通訊作者)
3. K.T. Wu and J.J. Lien, "Ultrasound-Based Rotator Cuff Tear Detection Using Attentional Deep Learning," 31st SECEC Congress, Munich, Germany, Sep. 4-6, 2024. (Oral)
4. Y.A. Chen, C.C. Chang, C.Y. Lin, Y.L. Tseng, J.J. Lien, S.M. Guo, J. S.H. Tsai, "Lung Nodule Segmentation in LDCT: Modified 3D nnUNet with Unified Focal Loss," Proceedings of IEEE III. International Conference on Electrical, Computer and Energy Technologies (ICECET 2023), Cape Town, South Africa. pp. 25, Nov. 2023. (Oral)
5. S.M. Yin, I.M. Chiu, J.J. Lien, "Combine Artificial Intelligence System with Indocyanine Green (ICG) Fluorescent for Intraoperative Guidance: Using Deep Learning to Assess Anatomical Landmarks During Laparoscopic Cholecystectomy", 31st International Congress of the European Association for Endoscopic Surgery (EAES) Rome, Italy, 20-23 Jun. 2023.(Oral)
6. M.T. Le and J.J. Lien, "Learning-based Template Matching for Robot Arm Grasping," IEEE International Conference on Systems, Man, and Cybernetics (SMC), Australia, Oct. 2021. (Oral) Acceptance Rate = 54.3%.
7. M.T. Le, C.G. Li, S.M. Guo and J.J. Lien, "Embedded-Based Object Matching and Robot Arm Control," IEEE International Conference on Automation Science and Engineering (CASE), Canada, Aug. 2019. (Oral) Acceptance Rate: 56%
8. V.T. Ng., C. Lin, C.G. Li, S.M. Guo and J.J. Lien, "Visual-Guided Robot Arm Using Self-Supervised Deep Convolution Neural Networks," IEEE International Conference on Automation Science and Engineering (CASE), Canada, Aug. 2019. (Oral) Acceptance Rate: 56%
9. Y.S. Cheung, Y.T. Huang and J.J. Lien "Visual Guided Adaptive Robotic Interceptions with Occluded Target Motion Estimations," IEEE/RSJ International Conference on Intelligent Robotics and Systems (IROS), Germany, Sep. 2015. **(Oral) Acceptance Rate = 3.4% (72/2134)**
10. Y.S. Cheung, Y.T. Huang and J.J. Lien "Adaptive Robotic Interceptions of Moving Targets with a Target Motion Estimation-based Visual Tracking Controller," IEEE International Conference on Systems, Man, and Cybernetics (IEEE SMC), Hong Kong, 2015.
11. J.Y. Wu, C.C. Tseng, C.H. Chang, J.C. Chen, C.T. Tu and J.J. Lien, "Road Sign Recognition System Based on GentleBoost with Sharing Features," International Conference on System Science and Engineering (ICSSE), Macao, China, 2011. **(Invited paper; Oral)**
12. J.C. Chen, S.Y. Shi, and J.J. Lien, "Face Recognition Using Margin-Enhanced Classifier in Graph-based Space," 5th International Conference on Computer Vision Theory and Applications (VISAPP), France, 2010. **(Oral)**
13. Z.Y. Liu, J.C. Chen, and J.J. Lien, "Multiple-Cue Face Tracking Using Particle Filter Embedded in Incremental Discriminant Models," 5th International Conference on Computer Vision Theory and Applications (VISAPP), France, 2010. **(Oral)**
14. C.T. Tu and J.J. Lien, "Non-parametric Bayesian Alignment and Recovery of Occluded Face Using Direct Combination Model," 5th International Conference on Computer Vision Theory and Applications (VISAPP), France, 2010.
15. C.T. Tu and J.J. Lien, "Recovery of Occluded Face Using Direct Combined Model-Based Particle Filter," International Conference on System Science and Engineering (ICSSE), Taiwan, 2010. **(Invited paper; Oral)**
16. J.C. Chen, S.Y. Shi, and J.J. Lien, "Face Recognition and Unseen Subject Rejection in Margin-Enhanced Space," International Conference on System Science and Engineering (ICSSE), Taiwan, 2010. **(Oral)**

17. C.T. Tu and J.J. Lien, "Facial Sketch Synthesis Using Direct Combination Model," IEEE International Conference on Multimedia & Expo (ICME), pp. 1196-1201, Singapore, 2010. **(Oral) Acceptance Rate = 15% (93/620)** ISBN: 978-1-4244-7491-2
18. C.T. Tu and J.J. Lien, "Efficient and Robust Facial Feature Point Estimation Using Direct Combined Model," IEEE International Conference on Image Processing (ICIP), Hong Kong, 2010. ISBN: 978-1-4244-7993-1
19. C.H. Fang, J.C. Chen, C.C. Tseng, and J.J. Lien, "Human Action Recognition Using Spatio-Temporal Classification," ACCV, Xi An, China, pp. 98-109, Sep. 2009.
20. S.H. Hsieh, C.W. Fang, T.H. Wang, C.H. Chu, and J.J. Lien, "Weighted Map for Reflectance and Shading Separation Using a Single Image," ACCV, Xi An, China, pp. 85-95, Sep. 2009.
21. W.S. Chu, J.C. Chen, and J.J. Lien, "Kernel Discriminant Analysis Based on Canonical Difference for Face Recognition in Image Sets," ACCV, Japan, pp. 700-711, Nov. 2007.
22. S.F. Lui, J.Y. Wu, H.S. Mao, and J.J. Lien, "Learning-Based Super-Resolution Using One Single Image with Multi-Resolution Wavelet Synthesis," ACCV, Japan, pp. 96-105, Nov. 2007.
23. M.C. Sung, T.H. Wang, and J.J. Lien, "High Dynamic Range Scene Realization Using Two Complementary Images," ACCV, Japan, pp. 261-270, Nov. 2007.
24. C.C. Tseng and J.J. Lien, "Synthesis of Exaggerative Caricature with Inter and Intra Correlations," ACCV, Japan, pp. 314-323, Nov. 2007. (Oral) Acceptance Rate = 7% (46 篇/640 篇).
25. C.C. Wang and J.J. Lien, "AdaBoost Learning for Human Detection Based on Histograms of Oriented Gradients," ACCV, Japan, pp. 885-895, Nov. 2007, Springer-Verlag Berlin, Heidelber. (Oral) 被推薦競爭最佳論文獎, 推薦率約 1% (8 篇/640 篇). ISBN:3-540-76385-6 978-3-540-76385-7
26. H.C. Hsin, J.J. Lien, and T.Y. Sung, "A Hybrid SPIHT-EBC Image Coder," International MultiConference of Engineers and Computer Scientists, Hong Kong, 2007. **(Oral, Best Paper Award)**
27. C.W. Fang and J.J. Lien, "Fast Directional Image Completion," IEEE Pacific Rim Symposium on Image Video and Technology (PSIVT), Chile, Dec. 2007. **(Oral, Best Paper Award)** Acceptance Rate = 4.5% (7 篇/155 篇)
28. T.H. Lai and J.J. Lien, "Incremental Perspective Motion Model for Rigid and Non-rigid Motion Separation," IEEE PSIVT, Chile, Dec. 2007. (Oral)
29. C.T. Tu and J.J. Lien, "Facial Occlusion Reconstruction: Recovering Both the Global Structure and the Local Detailed Texture Components," IEEE PSIVT, Chile, Dec. 2007. (Oral)
30. J.Y. Wu and J.J. Lien, "Using the Orthographic Projection Model to Approximate the Perspective Projection Model for 3D Facial Reconstruction," IEEE PSIVT, Chile, Dec. 2007. (Oral)
31. C.W. Fang and J.J. Lien, "Fast Image Replacement Using Multi-resolution Approach," Asian Conference on Computer Vision (ACCV), India, pp. 509-520, Jan. 2006. (Oral) Acceptance Rate = 13% (64 篇/500 篇).
32. W.T. Su and J.J. Lien, "Heuristic Pre-Clustering Relevance Feedback in Region-Based Image Retrieval," ACCV, India, pp. 294-304, Jan. 2006. (Oral) Acceptance Rate = 13% (64 篇/500 篇).
33. Y.T. Tsai and J.J. Lien, "Efficient Object Segmentation Using Digital Matting for Mpeg Video Sequences," ACCV, India, pp. 591-601, Jan. 2006.
34. C.C. Wang and J.J. Lien, "Automatic Vehicle Detection Using Statistical Approach," ACCV, India, pp. 171-182, Jan. 2006.
35. Jeffrey F Cohn, J.J. Lien, Takeo Kanade, Adena Zlochow, Wei Hua, "Beyond Prototypic Expressions: Discriminating Subtle Changes in the Face," Robot and Human Communication Workshop, Japan
36. J.J. Lien, T. Kanade, J.F. Cohn, and C.C. Li, "Subtly Different Facial Expression Recognition and Expression Intensity Estimation," IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), pp. 853-859, Santa Barbara, CA, Jun. 23-25, 1998. ISBN: 0-8186-8497-6
37. J.F. Cohn, A.J. Zlochow, J.J. Lien, and T. Kanade, "Feature-Point Tracking by Optical Flow Discriminates Subtle Differences in Facial Expression," Third IEEE International Conference on Automatic Face and Gesture Recognition (FG), pp. 396-401, Nara, Japan, Apr. 14-16, 1998. ISBN: 0-8186-8344-9
38. J.J. Lien, T. Kanade, J. F. Cohn, and C.C. Li, "Automated Facial Expression Recognition Based on FACS Action Units," Third IEEE International Conference on Automatic Face and Gesture Recognition (FG), pp. 390-395, Nara, Japan, Apr. 14-16, 1998. ISBN: 0-8186-8344-9
39. J.J. Lien, T. Kanade, A.J. Zlochow, J.F. Cohn, and C.C. Li, "Automatically Recognizing Facial Expressions in the Spatio-Temporal Domain Using Hidden Markov Models," IEEE Workshop on Perceptual User Interfaces (PUI), pp. 94-97, Alberta, Canada, Oct. 1997. (Oral)

VI. Domestic Conference Papers: (3 Best Paper Awards and 2 Best Poster Award)

-CVGIP (Computer Vision, Graphics and Image Processing, Taiwan).

-TAAI (Technologies and Applications of Artificial Intelligence).

-Auto (International Conference on Automation Technology)

1. A. Yen, Y.H. Yang and J.J. Lien,” Modified CPM-Net with Teacher-Student Semi-Supervised Learning for Pulmonary Nodule Detection,” IEEE International Conference on Technologies and Applications of Artificial Intelligence (TAAI), Taiwan, Dec. 2025. (Oral)
2. Y.C. Lung, X.R. Chi and J.J. Lien,” Cross-Environment Knowledge Transfer in DreamerV3 with Latent Entropy Regularization,” The 30th International Conference on Technologies and Applications of Artificial Intelligence (TAAI), Taipei, Taiwan, Dec. 2025. (Poster)
3. P.P. Le, T.L. Nguyen, C.C. Chang, C.Y. Lin, Y.T. Yen, Y.L. Tseng, C.T. Tu, and J.J. Lien,” 3D Interactive Segmentation for Lung Nodule Labeling in LDCT Images using Transformer Models”, The 38th IPPR Conference on Computer Vision, Graphics, and Image Processing (CVGIP), New Taipei, Taiwan, Aug. 2025. (Oral)
4. C.H. Lee, C.C. Chang, Y.L. Tseng, S.M. Guo and J.J. Lien,” Cross-Silo Federated Learning System for Two-Stage Lung Nodule Detection,” IEEE International Conference on Technologies and Applications of Artificial Intelligence (TAAI), Taiwan, Dec. 2023. (Oral)
5. B.H. Lin, W. He, K.J. Shih, C.J. Li and J.J. Lien,” Piles of Objects Detection for Grasping System Using Modified RGB-D MobileNetV3,” International Conference on Advanced Robotics and Intelligent Systems (ARIS), Taiwan, Aug. 2023. (Oral)
6. K.T Wu, MD., and J.J. Lien,” Deep Learning Assisted Detection of Rotator Cuff Tear in Medical Images”, Southern District Academic Symposium of Computer-Assisted Orthopaedic Surgery –Taiwan, Mar. 2023. (Oral)
7. J.Y. Wu, P.S. Yang, C.C. Chang, C.Y. Lin, Y.L. Tseng, S.M. Guo, and J.J. Lien,”Subsolid Nodules Detection in 2D Lung CT Images with Modified YOLOv4,” The 26th International Conference on Technologies and Applications of Artificial Intelligence (TAAI), Taichung, Taiwan, Nov. 2021. (Oral) (**Best Paper Award**)
8. B.H. Lin, L.H. Chang, Y.J. Chung, S.H. Ting, F.T. Yu, J.Y. Wu, and J.J. Lien” Tool Measurement Using Foreground Segment Network,” The 26th International Conference on Technologies and Applications of Artificial Intelligence (TAAI), Taichung, Taiwan, Nov. 2021. (Oral)
9. C.H. Lee, D.C. Shi, M.D. Huang, C.F. Lin, J.Y. Wu and J.J. Lien,”Multi-Dots SiamRPN++ Tracking for Pronated Foot Analysis in PSMNet Stereo Space,” The 26th International Conference on Technologies and Applications of Artificial Intelligence (TAAI) Taichung, Taiwan, Nov. 2021. (Oral)
10. H.C. Yin, H. Bao, C.C. Chang, C.Y. Lin, Y.L. Tseng, S.M. Guo, and J.J. Lien,”Subsolid Nodules Segmentation in 2D Lung CT Images Using Modified YOLOv4 Model,” The 34th IPPR Conference on Computer Vision, Graphics, And Image Processing (CVGIP), Taiwan, Aug. 2021. (Oral)
11. H.C. Yin, H.C. Chang, J.C. Chen, S.M. Guo, and J.J. Lien,”Multi-focus Image Fusion Using Encoder-Decoder Learning Network with Refinement,” Technologies and Applications of Artificial Intelligence (TAAI), Taiwan, Dec. 2020. (Oral) (**Best Poster Award**)
12. M.T. Le, C.T. Tu, and J.J. Lien,”Embedded-based Robot Arm Grasping Using Deep Features Rotation-Invariant Template Matching,” International Conference on Automation Technology (Auto), Hualien, Taiwan, Nov. 2020. (Oral)
13. B.H. Lin, C.T. Tu, S.M. Guo and J.J. Lien,”Defect Inspection Using the Modified RetinaNet on Stitching Images of Spinning Tools,” International Conference on Automation Technology (Auto), Hualien, Taiwan, Nov. 2020. (Oral)
14. P.P. Le, S.M. Guo, J.C. Chen and J.J. Lien,”Defect Detection and Defect Code Decision Using Patch-Based Local-Feature-Guided Multi-Task YOLOv4,” International Conference on Automation Technology (Auto), Hualien, Taiwan, Nov. 2020. (Oral)
15. P.P. Le, S.M. Guo, J.C. Chen, and J.J. Lien,”Ball-Grid-Array Chip Defects Detection and Classification Using Patch-Based Modified YOLOv3,” the 24th International Conference on Technologies and Applications of Artificial Intelligence (TAAI), Kaohsiung, Taiwan, Nov. 2019. (Oral)
16. P.P. Le, V.T. Nguyen, S.M. Guo, C.T. Tu, and J.J. Lien,”Visual-Guided Robot Arm Using Multi-Task Faster R-CNN,” The 24th International Conference on Technologies and Applications of Artificial Intelligence (TAAI), Kaohsiung, Taiwan, Nov. 2019. (Oral)
17. H.C. Yin, S.C. Liu, J.C. Chen, S.M. Guo, and J.J. Lien,”Tool Defect Detection and Classification Using Modified RetinaNet,” The 24th International Conference on Technologies and Applications of Artificial Intelligence (TAAI), Kaohsiung, Taiwan, Nov. 2019. (Oral)
18. M.T. Le, C.T. Tu, and J.J. Lien,”RST template alignment system using embedded GPU,” The 16th International Conference on Automation Technology (Auto), Taipei, Taiwan, Nov. 2019. (Oral)
19. E.Y. Lin, J.C. Chen, T.C. Lin, D.M. Tsay, and J.J. Lien,”Development and Application of Smart Tapping Machine: Nut Forming Inspection,” The 16th International Conference on Automation Technology (Auto), Taipei, Taiwan, Nov. 2019. (Oral & One of 5 finalist candidates of the best student paper award)
20. B.H. Lin, T.W. Yeh, C.T. Tu, C.K. Ho, M.S. Tsai, and J.J. Lien,”A Machine Vision-based Method for Spinning Tools Inspection,” The 16th International Conference on Automation Technology (Auto), Taipei, Taiwan, Nov. 2019. (Oral)

21. H.C. Yin, D.K. Tendeau, J.C. Chen, and J.J. Lien, "Evaluation of Scraping Workpiece Quality with Cloud Computing," The 16th International Conference on Automation Technology (Auto), Taipei, Taiwan, Nov. 2019. (Oral)
16. M.T. Le, C.T. Tu, S.M. Guo and J.J. Lien, "RST-Template Matching for Robot Arm Grasping at Embedded Board," CVGIP, Taitung, Taiwan, Aug. 2019. (Oral)
17. V.T. Ng., C. Lin, C.T. Tu, S.M. Guo and J.J. Lien, "Two-Stage Multi-Task Deep Convolutional Neural Networks for Robot Arm Grasping," CVGIP, Taitung, Taiwan, Aug. 2019. (Oral)
18. H.C. Yin, J.C. Chen, S.M. Guo, and J.J. Lien, "Evaluation of Scraping Workpiece Quality Using Fully Convolutional Network with Cloud Computing," CVGIP, Taitung, Taiwan, Aug. 2019. (Oral)
19. W.C. Lai, P.C. Mo, Y.S. Lin, J.J. Lien, S.E. Kuo and L.C. Kuo, "Developing a Food-Recognition Classifier for Health Promotion," Global Conference on Biomedical Engineering, Taiwan, 2018.
20. ZF. Chen, P.C. Mo, J.J. Lien, C.C. Huang, C.C. Lin, Y.S. Lin, F.C. Su and L.C. Kuo, "Quantification of Training Loads in Sports," MOST-JSP Conference ICT for Accessibility and Support of Older People, Taiwan, 2018.
21. S.C. Lin, P.C. Mo, Y.S. Lin, C.C. Huang, C.C. Lin, J.J. Lien, F.C. Su, and L.C. Kuo, "Prediction, and Prevention of Individual Heart Rate to Exercise," MOST-JSP Conference ICT for Accessibility and Support of Older People, 2018, Taiwan. **(Best Poster Award)** (非通訊作者)
22. Y.S. Cheung, Y.T. Huang, and J.J. Lien, "Multi-Target Interceptions with Vision Based Manipulator Systems", TAAI, 2015. (Oral Presentation)
23. Y.S. Cheung, Y.T. Huang, and J.J. Lien, "Modified CAMShift Guided Robotic Controllers for Moving Target Interceptions with Occlusion", CVGIP, pp. D1-5, 2015. (Oral Presentation)
24. Y.C. Huang, J.J. Lien, and C.F. Liu, "Probabilistic Linear Discriminant Analysis-Based Face Recognition Using Factor Analysis", CVGIP, pp. C2-4, 2014. (Oral Presentation)
25. Y.H. Kao, J.J. Lien, and C.T. Tu, "Lane Departure Warning System Using Line Hough Transform", CVGIP, pp. D2-2, 2014. (Oral Presentation)
26. P.J. Wu, J.J. Lien, and C.H. Chung, "Sparse-Based Object Tracking Using Particle Filter", CVGIP, pp. A4-4, 2014. (Oral Presentation)
27. S.H. Li, J.J. Lien, and C.H. Chen, "Depth-Based People Counting Using Mean Shift", CVGIP, pp. B4-5, 2014. (Oral Presentation)
28. C.C. Tseng, J.C. Chen, C.H. Fang, and J.J. Lien, "Silhouette-based Human Action Recognition in a Discriminant Spatio-Temporal Space," CVGIP, Taiwan, Aug. 21-23, 2011.
29. J.Y. Wu, C.C. Tseng, and J.J. Lien, "Road Sign Recognition System Based on HOG Descriptors and GentleBoost with Sharing Features," CVGIP, Taiwan, Aug. 21-23, 2011. **(Oral)**
30. C.H. Chang, C.C. Wang, and J.J. Lien, "Multi-View Vehicle Detection Using Gentle Boost with Sharing HOG Feature," CVGIP, Taiwan, Aug. 2009.
31. C.H. Fang, J.C. Chen, C. C. Tseng, and J.J. Lien, "Human Action Recognition in Temporal-Vector Trajectory Learning Framework," CVGIP, Taiwan, Aug. 2009. **(Oral)**
32. C.W. Fang, T.H. Wang, T.H. Lai, S.H. Hsieh, C.H. Chang, J.Y. Lin, and J.J. Lien, "Frontal Facial Expression Synthesis," CVGIP, Taiwan, Aug. 2009. **(Oral)**
33. S.H. Hsieh, C.W. Fang, T.H. Wang, C.H. Chu, and J.J. Lien, "Intrinsic Image Separation Using Weighted Map and Correction Using MRFs," CVGIP, Taiwan, Aug. 2009. **(Oral)**
34. P.C. Lin, C.T. Tu, and J.J. Lien, "Interactive 3D Model Construction Using Freehand Sketches," CVGIP, Taiwan, Aug. 2009.
35. Z.Y. Liu, J.C. Chen, and J.J. Lien, "Multi-Histogram Based Face Tracking Using Particle Filter Embedded in Incremental Linear Discriminant Model," CVGIP, Taiwan, Aug. 2009.
36. S.Y. Shi, J.C. Chen, and J.J. Lien, "Learning Distance Metric in Graph-based Subspace for Face Recognition," CVGIP, Taiwan, Aug. 2009. **(Oral)**
37. R.H. Tang, J.Y. Wu, and J.J. Lien, "Weighted Random Forest for Vehicle Identification under Different Views," CVGIP, Taiwan, Aug. 2009. **(Oral)**
38. C.T. Tu and J.J. Lien, "Automatic Alignment and Recovery of Occluded Face," CVGIP, Taiwan, Aug. 2009. **(Oral)**
39. J.Y. Wu, C.C. Tseng, and J.J. Lien, "Markov Network and Wavelet Based Super-Resolution in Ordered Gradient," CVGIP, Taiwan, Aug. 2009. **(Oral)**
40. W.H. Chiou, T.K. Huang, and J.J. Lien, "Recovering Intrinsic Scenes from Still Images Using Multi-Scale Derivative Information and Graphical Model," CVGIP, Taiwan, Aug. 2007. **(Oral)**
41. W.S. Chu, J.C. Chen, and J.J. Lien, "Face Recognition Using Kernel Fisher's Discriminant Transformation in Image Sets," CVGIP, Taiwan, Aug. 2007. **(Oral, Best Paper Award) Acceptance Rate = 7% (13 篇/176 篇)**
42. C.W. Fang and J.J. Lien, "Texture Analysis and Synthesis Using Directional Patch-Based Sampling," CVGIP, Taiwan, Aug. 2007. **(Oral)**
43. Y.C. Huang, S.Y. Huang, and J.J. Lien, "Face Tracking by Embedding Incremental Fisher Liner Discriminant to Particle Filtering," CVGIP, Taiwan, Aug. 2007.
44. T.H. Lai, T.H. Wang, and J.J. Lien, "Rigid and Non-Rigid Motion Segmentation by Using Incremental Perspective Motion Model," CVGIP, Taiwan, Aug. 2007. **(Oral)**

45. P.C. Lin and J.J. Lien, "Global Color Whiteness and Illumination Adjustment and Local Saturation Enhancement for Low-Level Image Processing," CVGIP, Taiwan, Aug. 2007.
46. S.F. Lui, H.S. Mao, and J.J. Lien, "Patch-Based Super-Resolution by Embedding Wavelet Synthesis to Markov Network," CVGIP, Taiwan, Aug. 2007. **(Oral)**
47. M.C. Sung and J.J. Lien, "Tone Reproduction Using Image Pair with Different Exposures," CVGIP, Taiwan, Aug. 2007. **(Oral)**
48. C.C. Tseng and J.J. Lien, "Synthesis of Exaggerative Line-Drawing Caricature," CVGIP, Taiwan, Aug. 2007. **(Oral)**
49. C.T. Tu and J.J. Lien, "Direct Reconstruction of Damaged Facial Regions Using Combined Eigenspace," CVGIP, Taiwan, Aug. 2007. **(Oral)**
50. C.C. Wang and J.J. Lien, "Learning-Based Human Detection Using Histograms of Oriented Gradients," CVGIP, Taiwan, Aug. 2007. **(Oral)**
51. C.H. Chu and J.J. Lien, "Distortion Removal for Digital Photos By Using Boundary Interpolation," Computer Vision, Graphics, and Image Processing (CVGIP), Taiwan, Aug. 2006. **(Oral)**
52. W.C. Chu and J.J. Lien, "Automatic Face Recognition under Component-Based Manifolds," CVGIP, Taiwan, Aug. 2006. **(Oral)**
53. S.F. Lui and J.J. Lien, "Real-Time Face Tracking by Embedding Mean Shift to Particle Filtering," CVGIP, Taiwan, Aug. 2006. **(Oral)**
54. M.C. Sung and J.J. Lien, "Fast Tone Reproduction for Digital Images by Using Multi-Resolution Approach," CVGIP, Taiwan, Aug. 2006. **(Oral)**
55. C.C. Wang and J.J. Lien, "The Sparse Part-Based Object Detection Using the Scale-Invariant Approach," CVGIP, Taiwan, Aug. 2006. **(Oral)**
56. J.Y. Wu and J.J. Lien, "3D Face Reconstruction under Missing Correspondence: A Factorization Approach," CVGIP, Taiwan, Aug. 2006. **(Oral)**
57. M.J. Wu, J.Y. Wu, and J.J. Lien, "Shape Recovery Using Uncalibration Image Sequence," CVGIP, Taiwan, Aug. 2006.
58. J.C. Chen and J.J. Lien, "Multi-View Face Detection and Pose Estimation," CVGIP, Taiwan, Aug. 2005.
59. W.H. Chou and J.J. Lien, "Automatic Head Detection and Tracking Using Generalized Hough Transform," CVGIP, Taiwan, Aug. 2005. **(Oral)**
60. C.W. Fang and J.J. Lien, "Fast Image Replacement through Texture Synthesis," CVGIP, Taiwan, Aug. 2005. **(Oral)**
61. Y.D. Li and J.J. Lien, "Shot Detection and Classification in Tennis Broadcasting," CVGIP, Taiwan, Aug. 2005. **(Oral)**
62. W.T. Su and J.J. Lien, "Heuristic Pre-Clustering Relevance Feedback in Attention-Based Image Retrieval," CVGIP, Taiwan, Aug. 2005. **(Oral)**
63. Y.P. Teng and J.J. Lien, "Semantic Analysis for Tennis image Sequences," CVGIP, Taiwan, Aug. 2005. **(Oral)**
64. Y.T. Tsai and J.J. Lien, "Efficient Video Segmentation Using Digital Matting," CVGIP, Taiwan, Aug. 2005. **(Oral)**
65. C.C. Tseng and J.J. Lien, "An Animal-Like Caricature Generation System," CVGIP, Taiwan, Aug. 2005. **(Oral)**
66. C.T. Tu and J.J. Lien, "Facial Sketch Synthesis Using Direct Combined Model," CVGIP, Taiwan, Aug. 2005. **(Oral)**
67. C.C. Wang and J.J. Lien, "Automatic Vehicle Detection Using Local Features - A Statistical Approach," CVGIP, Taiwan, Aug. 2005. **(Oral)**
68. T.H. Wang and J.J. Lien, "Rigid and Non-rigid Motion Separation for Facial Expression Analysis," CVGIP, Taiwan, Aug. 2005. **(Oral)**
69. J.Y. Wu and J.J. Lien, "3D Face Reconstruction Using The Orthogonal Model to Approximate The Perspective Model," CVGIP, Taiwan, Aug. 2005.
70. J.C. Chen and J.J. Lien, "Face Detection under Different Pose," CVGIP, Taiwan, Aug. 2004.
71. W.H. Chiou and J.J. Lien, "Automatic Face Detection and Tracking," CVGIP, Taiwan, Aug. 2004. **(Oral)**
72. J.L. Lu and J.J. Lien, "Rigid and Non-Rigid Motion Segmentation Using Perspective Transformation," CVGIP, Taiwan, Aug. 2004.
73. W.T. Su and J.J. Lien, "Heuristic Pre-Clustering for Content-Based Image Retrieval Using Relevance Feedback," CVGIP, Taiwan, Aug. 2004. **(Oral)**
74. Y.P. Teng and J.J. Lien, "Annotation for Tennis Video," CVGIP, Taiwan, Aug. 2004. **(Oral)**
75. C.T. Tu and J.J. Lien, "Estimation of Facial Control-Point Locations," CVGIP, Taiwan, Aug. 2004. **(Oral)**
76. C.C. Wang and J.J. Lien, "Vehicle Detection by Using Statistical Approach," CVGIP, Taiwan, Aug. 2004. **(Oral)**
77. T.H. Wang and J.J. Lien, "Rigid and Non-Rigid Motion Separation Using 3D Model," Computer Vision, Graphics, and Image Processing (CVGIP), Taiwan, Aug. 2004. **(Oral, Best Paper Award)**
78. J.Y. Wu and J.J. Lien, "3D Face Reconstruction Using Factorization Method," CVGIP, Taiwan, Aug. 2004.

V. 國內外專利：

- 1.1 用於 PCB 加工機的刀具量測識別系統：台灣專利號 M517044，專利期間：2016/02/11~2025/08/06。

- 1.2 用於 PCB 加工機的刀具量測識別系統：中國專利號 4932028。
- 2.1 用於 PCB 加工機的加工深度控制系統與表面曲度量測裝置：台灣專利號 M522342，專利期間：2016/05/21~2025/08/06。
- 2.2 用於 PCB 加工機的加工深度控制系統與表面曲度量測裝置：中國專利號 4935253。
- 3.1 運動課程產生方法與系統：台灣專利號 I777140，專利期間：2022/09/11~2040/03/04。