(A) 期刊論文

1. S. Chang, **Y.-C. Chang**, and C.-Y. Chang, "A minimum discrepancy estimator in parameter estimation," *IEEE Trans. Inform. Theory*, Vol. 44, No. 7, pp. 2930-2942, Nov. 1998. (SCI) NSC87-2213-E-007-035
2. **Y.-C. Chang**, and S. Chang, "The entropy of discrete-time fractional Gaussian noise and its application to the electromyogram of external urethral sphincter signals," *Biomedical Engineering- Appl., Basis, and Comm.* Vol. 13, No. 6, pp. 256-261, Dec. 2001. (SCI) NSC90-2213-E-007-047
3. **Y.-C. Chang**, and S. Chang, "A fast estimation algorithm on the Hurst parameter of discrete-time fractional Brownian motion," *IEEE Trans. Signal Processing*, Vol. 50, No. 3, pp. 554-559, March 2002. (SCI) NSC90-2213-E-007-047
4. **Y.-C. Chang*** and C.-M. Chang, "A Simple Histogram Modification Scheme for Contrast Enhancement," *IEEE Trans. Consumer Electron.*.Vol. 56, No. 2, pp. 737-742, May 2010. (SCI)
5. L.-C. Lai, C.-F. Lu, **Y.-C. Chang**, and T.-L. Lee, "Parameter Estimation of Potential Field Method with Fuzzy Control for Motion Planning of Soccer Robot," *Communications in Computer and Information Science*, Vol. 212, pp. 186–192, 2011. (EI)
6. L.-H. Chen, P.-L Chang, G.-W. Lin, and **Y.-C. Chang**, "Intelligent Human Eye State Identification Based on 2DPCA and Skin Color," *Applied Mechanics and Materials*, Vol. 145, pp. 252-256, 2012. (EI)
7. **Y.-C. Chang***, L.-H. Chen, L.-C. Lai, and C.-M. Chang, "An Efficient Variance Estimator for the Hurst Exponent of Discrete-Time Fractional Gaussian Noise," *IEICE Trans. Fundam. Electron. Commun. Comput. Sci.*, Vol. E95-A, No. 9, pp. 1506-1511, Sep. 2012. (SCI)
8. C.-M. Chang, **Y.-C. Chang**, H.-Y. Chang, and L.-W. Chou, "An interactive game-based shoulder wheel system for rehabilitation," *Patient Preference and Adherence*, Vol. 6 pp. 821-828, 2012. (SCI)
9. S.-Y. Wu, C.-L. Chin, Y.-S. Cho, **Y.-C. Chang**, and L.P. Hsu, "Intelligent Breast Tumor Detection System with Texture and Contrast Features," *Biomedical Engineering: Applications, Basis and Communications*, Vol. 25, No. 3, 135008 (8 pages), 2013. (SCI)

10. **Y.-C. Chang***, C.-M. Chang, L.-H. Chen, and T.-J. Chan, "A Multi-criteria Image Quality Evaluation Scheme," *Applied Mechanics and Materials*, Vols. 284-287, pp. 2975-2979, 2013. (EI)
11. L.-H. Chen, **Y.-C. Chang**, P.-L. Chang, and C.-M. Chang, "A Novel Adaptive Fast Learning Algorithm for 2DPCA," *Applied Mechanics and Materials*, Vol. 311, pp 129-134, 2013. (EI)
12. **Y.-C. Chang***, L.-C. Lai, L.-H. Chen, C.-M. Chang, and C.-C. Chueh, "A Hurst exponent estimator based on autoregressive power spectrum estimation with order selection," *Bio-Medical Materials and Engineering*, Vol. 24, No. 1, pp. 1041-1051, 2014. (SCI)
13. **Y.-C. Chang***, C.-M. Chang, L.-H. Chen, and T.-J. Chan, Evaluating Image Quality Using Consistent Grey Relational Grade, *Engineering Computations*, Vol. 31, Issue: 2, pp. 231-249, 2014. (SCI)
14. **Y.-C. Chang***, "Efficiently implementing the maximum likelihood estimator for Hurst exponent," *Mathematical Problems in Engineering*, Vol. 2014, Article ID 490568, 10 pages, 2014. (SCI)
15. **Y.-C. Chang***, C.-M. Chang, L.-C. Lai, and L.-H. Chen, "Contrast Enhancement and Visual Effects Based on Gray-Level Grouping," *Journal of Marine Science and Technology*, Vol. 22, No. 4, pp. 513-518. (SCI) 2014/8/1
16. **Y.-C. Chang***, "An efficient estimator of Hurst exponent through an autoregressive model with an order selected by data induction," *Bio-Medical Materials and Engineering*, Vol. 24, No. 6, pp. 3557-3568, 2014. (SCI) 2014/10/1
17. **Y.-C. Chang***, "Backward Histogram Equalization, Backward Histogram Specification, and Other Backward Variants," *Chung Shan Medical Journal*, Vol. 25, No. 1, 1. pp. 41-55, 2014.
18. **Y.-C. Chang***, "Introducing an Interpolation Method to Efficiently Implement an Approximate Maximum Likelihood Estimator for the Hurst Exponent," Fractals, Vol. 23, No. 4, 1550045 (13 pages), 2015. (SCI)
19. L.-H. Chen*, **Y.-C. Chang**, C.-Y. Lee, and P.-L. Chang, "A Novel Scalable Dual Basis GF(2m) Multiplier Architecture," *Journal of Computers*, Vol. 28, No. 1, pp. 87-103, 2017. (EI)

20. **Y.-C. Chang***, “Speeding up estimation of the Hurst exponent by a two-stage procedure from a large to small range,” *Engineering Computations*, Vol. 34, Issue: 1, pp.3-17, 2017. (SCI)
21. **Y.-C. Chang***, “An almost automatic image fusion scheme for balancing clarity and visual effects,” *Multimedia Tools and Applications*, Vol. 76, Issue 23, pp 25455-25476, 2017.
22. **Y.-C. Chang***, “A flexible contrast enhancement method with visual effects and brightness preservation: Histogram planting,” *Computers and Electrical Engineering* 69, pp. 796-807, 2018. (SCI)
23. **Y.-C. Chang***, “An efficient maximum likelihood estimator for two-dimensional fractional Brownian motion,” *Fractals*, Vol. 29, No. 1, 2150025 (15 pages), 2021. (SCI)
24. **Y.-C. Chang**, C.-C. Chang*****, Using an Optimization Algorithm to Detect Hidden Waveforms of Signals, *Sensors* 2021, Volume 21, Issue 2, 588 (22 pages), 2021. (SCI)
25. **Y.-C. Chang**, J.-T. Jeng*, “Classifying Images of Two-Dimensional Fractional Brownian Motion through Deep Learning and Its Applications,” *Applied Sciences* 2023, 13(2), 803 (25 pages). (SCI)
26. H.-C. Chu, Y.-X. Wang, T.-Y. Wang, T.-H. Chang, C.-H. Lin, **Y.-C. Chang***, “A Gesture Recognition System Based on a Dual-stream Model for Deep Learning,” *Chung Shan Medical Journal*, Vol. 34, No. 2, 2023.
27. **Y.-C. Chang***, “Deep-Learning Estimators for the Hurst Exponent of Two-Dimensional Fractional Brownian Motion,” *Fractal and Fractional*, 2024, 8(1), 50 (39 pages).
28. **Y.-C. Chang**, J-C. Liu*, C.-C. Chang, and C.-C. Chang*, “Texture-Image-Oriented Coverless Data Hiding Based on Two-Dimensional Fractional Brownian Motion,” *Electronics* 2024, 13(20), 4013. (26 pages)
29. **Y.-C. Chang***, “Multiple-Stream Models for a Single-Modality Dataset with Fractal Dimension Features,” *Fractal and Fractional*, 2025, 9(4), 248 (41 pages).

(B) 國際研討會論文

1. **Y.-C. Chang***, “Rhythm of the Electromyogram of External Urethral Sphincter during Micturition in Rats,” The 13th International Conference on Biomedical

Engineering (ICBME2008), December 3-6, 2008, Singapore. (ICBME 2008, Proceedings 23, pp. 227–230, 2009) (oral)

2. **Y.-C. Chang***, "N-Dimension Golden Section Search: Its Variants and Limitations," *The 2nd International Conference on BioMedical Engineering and Informatics* (BMEI2009), October 17-19, 2009, Tianjin, China.
3. C.-M. Chang, **Y.-C. Chang**, and B.Y. Hsiao, "The design of a shoulder rehabilitation game system," *IET International Conference on Frontier Computing- Theory, Technologies and Applications*, pp. 151-156, August 4-6, 2010, Taichung, Taiwan. (ISBN: 978-1-84919-208-8) (oral)
4. L.-C. Lai, C.-F. Lu, **Y.-C. Chang**, and T.-L. Lee, "Position Estimation of a Mobile Robot by PSO Algorithm Using a Laser Range Finder", 2011 International Conference on Consumer Electronics, Communications and Networks (CECNet), Vol.2, pp. 1505-1508, April 16-18, 2011, XianNing, China. (ISBN: 978-1-61284-457-2) (poster)
5. L.-C. Lai, C.-F. Lu, **Y.-C. Chang**, and T.-L. Lee, "Parameter Estimation of Potential Field Method with Fuzzy Control for Motion Planning of Soccer Robot", FIRA2011 RoboWorld Cup & Congress, Vol. 16 No. 2, August 26-30, 2011, Kaohsiung, Taiwan. (oral)
6. L.-H. Chen, P.-L. Chang, G.-W. Lin, and **Y.-C. Chang**, "Intelligent Human Eye State Identification Based on 2DPCA and Skin Color," The First International Conference on Engineering and Technology Innovation 2011 (ICETI2011), November 11-15, 2011, Kenting, Taiwan.
7. L.-H. Chen, P.-L. Chang, **Y.-C. Chang**, and C.-Y. Lee, "A Scalable Architecture for Dual Basis GF(2^m) Multiplications," International Symposium on Biometrics and Security Technologies (ISBAST2012), March 26-29, 2012, Taipei, Taiwan. (oral)
8. **Y.-C. Chang***, C.-M. Chang, L.-H. Chen, and T.-J. Chan, "A Multi-criteria Image Quality Evaluation Scheme," The 2nd International Conference on Engineering and Technology Innovation 2012 (ICETI2012), November 2-6, 2012, Kaohsiung, Taiwan.
9. L.-H. Chen, **Y.-C. Chang**, P.-L. Chang, and C.-M. Chang, "A Novel Adaptive Fast Learning Algorithm for 2DPCA," 2012 International Conference on Information, Communication and Engineering (ICICE2012), December 15-20, 2012, Fuzhou, China. (oral)

10. Y.-C. Chang, H.-C. Hsu, J.-J. Lee, C.-C. Chueh, C.-M. Chang, and L.-H. Chen, "License Plate Character Recognition Using Block-Binary-Pixel-Sum Features," International Conference on Computer, Networks and Communication Engineering (ICCNCE2013), pp. 111-113, May 23-24, 2013, Beijing, China. (oral)
11. **Y.-C. Chang***, L.-C. Lai, C.-C. Chueh, Y. Xu, and C.-H. Hsieh, "A Study of Particle Swarm Optimization with Considering More Local Best Particles," International Conference on Software Engineering and Computer Science (ICSECS2013), pp. 116-119, September 27-29, 2013, Yichang, China. (oral)
12. **Y.-C. Chang***, L.-C. Lai, L.-H. Chen, C.-M. Chang, and C.-C. Chueh, "A Hurst exponent estimator based on autoregressive power spectrum estimation with order selection," The 2nd International Conference on Biomedical Engineering and Biotechnology (iCBEB 2013), October 11-13, 2013, Wuhan, China. (oral)
13. L.-C. Lai, **Y.-C. Chang**, J.-T. Jeng, G.-M. Huang, W.-N. Li, and Y.-S. Zhang, "A PSO method for optimal design of PID controller in motion planning of a mobile robot," 2013 International Conference on Fuzzy Theory and Its Application (iFUZZY 2013), December 6-8, 2013, Taipei, Taiwan. (oral)
14. L.-C. Lai, C.-N. Ko, and **Y.-C. Chang**, "A potential field method for a bicycle intelligent safety warning system," International Symposium on Artificial Life and Robotics (AROB 19th 2014), January 22-24, 2014, Beppu, Japan. (oral)
15. **Y.-C. Chang***, C.-C. Chueh, Y. Xu, C.-H. Hsieh, Y.-L. Chen, Y.-T. Huang, and C. Xie, "Bare bones particle swarm optimization with considering more local best particles," 4th International Symposium on Electrical and Electronics Engineering (ISEEE 2014), February 27-28, 2014, Shanghai, China. (oral) [2013 2nd International Symposium on Instrumentation and Measurement, Sensor Network and Automation (IMSNA), pp. 1105-1108, December 23-24, 2013, Toronto, Canada.]
16. **Y.-C. Chang***, C.-H. Hsieh, Y. Xu, Y.-L. Chen, C.-C. Chueh, Y.-T. Huang, and C. Xie, "Introducing the Concept of Velocity into Bare Bones Particle Swarm Optimization," 2014 International Conference on Information Science, Electronics and Electrical Engineering (ISEEE 2014), pp. 1580-1584, April 26-28, 2014, Sapporo City, Hokkaido, Japan. (oral)
17. **Y.-C. Chang***, Y.-L. Chen, Y. Xu, C.-H. Hsieh, C.-C. Chueh, Y.-T. Huang, and C.-T. Hsieh, "Particle Swarm Optimization with Considering More Locally Best

Particles and Gaussian Jumps," The 2014 10th International Conference on Natural Computation (ICNC 2014), pp. 286-291, August 19-21, 2014, Xiamen, China. (oral)

18. **Y.-C. Chang***, "An efficient estimator of Hurst exponent through an autoregressive model with an order selected by data induction," The 3rd International Conference on Biomedical Engineering and Biotechnology (iCBEB2014), September 25-28, Beijing, China. (oral)
19. **Y.-C. Chang*** and C.-H. Hsieh, "Mutual influence between two processes of discrete-time fractional Gaussian noise," The 3rd International Conference on Biomedical Engineering and Biotechnology (iCBEB2014), September 25-28, Beijing, China. (oral)
20. **Y.-C. Chang***, R.-A. Shen, S.-X. Chou, H.-P. Lin, C.-Y. Huang, and F.-Y. Chang, "Evaluating the degree of influence between two discrete-time fractional Gaussian noises," 7th WACBE World Congress on Bioengineering 2015 (WACBE2015), July 6-8, 2015, Singapore. (oral)
21. **Y.-C. Chang***, "Speeding up estimation of the Hurst exponent by a two-stage procedure from a large to small range," The International Conference on Biomedical Engineering Innovation 2015 (ICBEI2015), International Multi-Conference on Engineering and Technology Innovation 2015 (IMETI2015), October 30-November 03, 2015, Kaohsiung, Taiwan. (oral)
22. **Y.-C. Chang***, S.-H. Chen, G.-R. Huang, B.-L. Zhuang, H.-C. Shi, and W.-S. Ye, "A Study of How to Select Three Main Parameters of Ant Colony Optimization for the Travelling Salesman Problem," 8th International Conference on Machine Learning and Computing (ICMLC 2016), February 22-23, 2016, Hong Kong. (oral)
23. **Y.-C. Chang***, G.-R. Huang, S.-H. Chen, B.-L. Zhuang, and H.-C. Shi, "Introducing more locally best particles and Gaussian Jumps into bare bones particle swarm optimization," 8th International Conference on Machine Learning and Computing (ICMLC 2016), February 22-23, 2016, Hong Kong. (oral)
24. **Y.-C. Chang***, B.-L. Zhuang, H.-C. Shi, Y.-T. Huang, S.-H. Chen, and G.-R. Huang, "A Study of Integrating Particle Swarm Optimization and Bare Bones Particle Swarm Optimization to Solve Problems," 8th International Conference on Machine Learning and Computing (ICMLC 2016), February 22-23, 2016, Hong Kong. (oral)

25. **Y.-C. Chang***, P.-C. Huang, M.-H. Li, C.-Y. Lu, C.-J. Lo, and P.-Y. Huang, "Introducing More Locally Best Locations into the Bat Algorithm," International Conference on Advanced Technology Innovation 2016 (ICATI2016), June 30-July 3, 2016, Bali, Indonesia. (oral)
26. **Y.-C. Chang***, Y.-T. Huang, B.-L. Zhuang, S.-H. Chen, G.-R. Huang, and H.-C. Shi, "Selecting the Best Model of Particle Swarm Optimization Based on the Previous Performance," 2016 IEEE International Conference on Systems, Man, and Cybernetics (IEEE SMC 2016), pp. 2972-2977, October 9-12, 2016, Budapest, Hungary. (oral)
27. **Y.-C. Chang***, "An Almost Automatic Image Fusion Scheme for Balancing Clarity and Visual Effects," The Fifth International Multi-Conference on Engineering and Technology Innovation 2016 (IMETI2016), October 28-November 1, 2016, Taichung, Taiwan. (oral)
28. **Y-C. Chang***, B.-L. Chuang, C.-H. Chen, S.-Y. Yu, "A Fractal Dimension Analysis of the QRS Complex of Electrocardiograms," 2017 International Conference on Medical and Health Informatics (ICMHI 2017), May 20-22, 2017, Taichung, Taiwan. (oral)
29. **Y-C. Chang***, S.-K. Leong, T.-S. Chuang, C.-Y. Chuang, "Introducing More Locally Best Locations into the Firefly Algorithm," 2017 International Conference on Medical and Health Informatics (ICMHI 2017), May 20-22, 2017, Taichung, Taiwan. (oral)
30. **Y.-C. Chang***, "Using K-Means Clustering to Improve the Efficiency of Ant Colony Optimization for the Traveling Salesman Problem," 2017 IEEE International Conference on Systems, Man, and Cybernetics (IEEE SMC 2017), pp. 379-384, October 5-8, Banff, Canada. (oral)
31. **Y.-C. Chang***, "A Flexible Contrast Enhancement Method with Visual Effects and Brightness Preservation: Histogram Planting," The Sixth International Multi-Conference on Engineering and Technology Innovation 2017 (IMETI2017), Oct. 27 - Oct. 31, Hualien, Taiwan. (oral)
32. **Y.-C. Chang***, S.-Y. Yu, C.-H. Chen, "An Empirical Mode Decomposition Analysis of the QRS Complex of Electrocardiograms," International Conference on Advanced Technology Innovation 2018 (ICATI2018), June 27-30, 2018, Krabi, Thailand. (oral)

33. **Y.-C. Chang*,** Y.-M. Chang, L.-C. Chang, "The Parameter Analysis and Selection of Differential Evolution," International Conference on Advanced Technology Innovation 2018 (ICATI2018), June 27-30, 2018, Krabi, Thailand. (oral)
34. **Y.-C. Chang*,** K.-H. Huang, Y.-J. Huang, "The Analysis and Selection of Interaction Between the Population Size and Iteration Number on Differential Evolution," International Conference on Advanced Technology Innovation 2018 (ICATI2018), June 27-30, 2018, Krabi, Thailand. (oral)
35. **Y.-C. Chang*,** "Differential Evolution with Control Parameters Selected from the Previous Performance," 2018 IEEE International Conference on Systems, Man, and Cybernetics (IEEE SMC 2018), pp. 2285-2288, October 7-10, 2018, Miyazaki, Japan. (oral)
36. **Y.-C. Chang*,** "An Efficient Maximum Likelihood Estimator of the Hurst Exponent of Fractional Brownian Surfaces," International Conference on Biomedical Engineering Innovation (ICBEI2018), November 2-6, 2018, Taoyuan, Taiwan. (oral)
37. **Y.-C. Chang***, W.-S. Yan, C.-Y. Lin, T.-Y. Pan, "A Fractal Dimension Analysis for Intervals of the QRS Complex of Electrocardiograms," the 3rd International Conference on Biomedical and Health Informatics (ICBHI2019), April 17-20, 2019, Taipei, Taiwan. (oral)
38. **Y.-C. Chang***, "An Efficient Maximum Likelihood Estimator for the Fractal Dimension of Two-Dimensional Fractional Gaussian Noise," the 3rd International Conference on Biomedical and Health Informatics (ICBHI2019), April 17-20, 2019, Taipei, Taiwan. (oral)
39. **Y.-C. Chang***, W.-S. Yan, C.-Y. Lin, T.-Y. Pan, "An Asymptotic Analysis for Empirical Mode Decomposition of Discrete-Time Fractional Brownian Motion," the 3rd International Conference on Biomedical and Health Informatics (ICBHI2019), April 17-20, 2019, Taipei, Taiwan. (oral)
40. **Y.-C. Chang***, C.-Y. Lin, W.-S. Yan, T.-Y. Pan, "A Time-Frequency Analysis for Intervals of the QRS Complex of Electrocardiograms," International Conference on Advanced Technology Innovation 2019 (ICATI2019), July 15-18, 2019, Sapporo, Hokkaido, Japan. (oral)
41. **Y.-C. Chang*,** "Parameter Selection of Differential Evolution by another Differential Evolution Algorithm," 2019 IEEE International Conference on

Systems, Man, and Cybernetics (IEEE SMC 2019), pp. 2510-2515, October 6-9, 2019, Bari, Italy. (oral)

42. Y.-F. Lin, Y.-L. Wu, **Y.-C. Chang***, "Classification of Two-dimensional fractional Brownian motion images through deep learning," 2020 Management and Medical Sciences Interdisciplinary Conference, October 30 - November 1, 2020, Taipei, Taiwan. (poster)
43. Y.-T. Lee, W.-S. Guo, C.-C. Tsao, **Y.-C. Chang***, "A sentiment analysis method based on a transformer and a recurrent neural network," 2020 Management and Medical Sciences Interdisciplinary Conference, October 30 - November 1, 2020, Taipei, Taiwan. (poster)
44. Y.-C. Chao, Y.-S. Chung, H.-C. Hsu, **Y.-C. Chang***, "Using Multiple-Input Deep Learning Models to Classify Images," International Conference on Advanced Technology Innovation 2023 (ICATI2023), April 01-05, 2023, Okinawa, Japan. (oral)
45. K.-C. Yang, **Y.-C. Chang***, "Medical Image Segmentation with Few Labeled Data based on Contrastive Learning Methods," International Conference on Advanced Technology Innovation 2023 (ICATI2023), April 01-05, 2023, Okinawa, Japan. (oral)
46. K.-Y. Lai, **Y.-C. Chang***, "Enhancing Cranioplasty with Deep Learning Based on GANs and Point-Cloud Data", International Conference on Advanced Technology Innovation 2024 (ICATI2024), April 03-07, 2024, Kanazawa, Japan. (oral)
47. **Y.-C. Chang***, "A Deep-Learning Estimator for the Hurst Exponent of Two-Dimensional Fractional Brownian Motion: Its Evolution and Applications", International Conference on Advanced Technology Innovation 2024 (ICATI2024), April 03-07, 2024, Kanazawa, Japan. (keynote speech)
48. Chien-Yi Yeh, **Yen-Ching Chang***, "A Multimodal Transformer-Diffusion Framework for Cranioplasty to Generate Cranial PointCloud Data and Diagnostic Text," International Conference on Advanced Technology Innovation 2025 (ICATI2025), Hakodate, Japan, July 02-06, 2025. (oral)
49. Wen-Ting Cheng, **Yen-Ching Chang***, "Enhancing the Image-Text Alignment and Generating Reports Based on the GroupViT Model," International Conference on Advanced Technology Innovation 2025 (ICATI2025), Hakodate, Japan, July 02-06, 2025. (oral)

50. Yu-Cheng Li, **Yen-Ching Chang***, “A Medical Image Segmentation Method Based on Vision Transformer and Multi-Stage Self-Supervised Learning,” International Conference on Advanced Technology Innovation 2025 (ICATI2025), Hakodate, Japan, July 02-06, 2025. (oral)
51. Yu-Lung Chang, **Yen-Ching Chang***, “A Dual-Path Deep Learning Architecture with Fusion Strategies and Timing for Retinal Vessel Segmentation” The 13th International Conference on Awareness Science and Technology (iCAST 2025), Yogyakarta, Indonesia, November. 19 - 21, 2025. (oral) (best paper)

(C) 國內研討會論文

1. **Y.-C. Chang** and K.-C. Tu, “Contrast Enhancement Based on a Simple Histogram Modification Scheme,” *2009 Conference on Information Management & Practice, IMP-2009*. (第十五屆資訊管理暨實務研討會，時間：2009/12/12，地點：國立科學工藝博物館(高雄市九如一路 720 號)，主辦單位：國立高雄應用科技大學資訊管理學系、中華民國資訊管理學會)(oral)
2. **Y.-C. Chang**, Y.-S. Tyan, and K.-C. Tu, “Using Contrast Enhancement Techniques to Improve the Visual Effects of Computerized Tomography,“ Biomedical Engineering Society 2009 Annual Symposium (醫學工程年會/研討會暨國科會醫學工程學門成果發表會)，時間：2009/12/11-12，地點：國立陽明醫學大學，主辦單位：國立陽明醫學大學。(poster)
3. **Y.-C. Chang**, C.-T. Wang, Y.-C. Lee, M.-K. Shih, and T.-H. Hou, “Backward Histogram Equalization and Its Extension,” *2010 Conference on Information Management & Practice, IMP-2010*. (第十六屆資訊管理暨實務研討會，時間：2010/12/11，地點：雲林縣斗六市，主辦單位：國立雲林科技大學資訊管理學系、中華民國資訊管理學會) (Yen-Ching Chang, Chang-Tai Wang, Yi-Chieh Lee, Meng-Kai Shih, and Ting-Han Hou)(oral)
4. **Y.-C. Chang**, T.-W. Chang, T.-J. Wang, and T.-H. Hou, “Quantitative Grey Relational Generating and Its Application to Contrast Enhancement,” *2010 Conference on Information Management & Practice, IMP-2010*. (第十六屆資訊管理暨實務研討會，時間：2010/12/11，地點：雲林縣斗六市，主辦單位：

國立雲林科技大學資訊管理學系、中華民國資訊管理學會) (Yen-Ching Chang, Ting-Wei Chang, Tsan-Jung Wang, and Ting-Han Hou)(oral)

5. 賴岦俊、**張炎清**、郭振輝、詹東融，“粒子群演算法於最佳時間控制之機器足球員動態路徑規劃”，2011 智慧型數位生活研討會， 353-358 頁，2011 年 4 月 29 日，中國文化大學工學院，台北。(2011 Intelligent Living and Digital Life Conference) (oral)
6. **張炎清**,葉偉勳*,沈俊吉,薛偉呈,吳秉勳，“蟻群最佳化應用於旅行商問題之參數研究”，2015 國際醫學資訊聯合研討會，19-24 頁，2015 年 6 月 22 日至 6 月 23 日，長庚大學，台北。(Joint Conference on Medical Information in Taiwan, JCMIT2015) (oral) 。主辦單位：長庚大學、中央研究院、台灣醫學資訊學會(Chang Gung University, Academia Sinica, Taiwan Association for Medical Informatics) (A study of the parameters of ant colony optimization on the travelling salesman problem)
7. 許瑋芸、張炎清*，“CNN 於肺部 X 光影像的辨識與分析”，2021 年台灣健康照護聯合學術研討會，November 4, 2021，林口長庚醫院，新北市。
8. 朱浩銓、王永賢、王亭幼、張子浩、張炎清*，“透過 3DCNN+ConvLSTM 與 LSTM 所整合的雙流模型進行手勢辨識”(Gesture Recognition through a dual-stream model of 3DCNN+ConvLSTM and LSTM)，2021 年生物醫學工程科技研討會-科技部醫工學門成果發表會(2021 Annual Meeting of Taiwanese Society of Biomedical Engineering (TSBME 2021)-Annual Report of Ministry of Science and Technology, Taiwan)，November 19–20, 2021，中興大學，台中(Taichung, Taiwan)。
9. 徐滋、徐毓璞、程崧哲、王彥晟、張炎清*，“使用碎形維度相關特徵識別胸部 X 光影像之肺炎病徵”(Using Fractal Dimension-related Features to Recognize Pneumonia Symptoms of Chest X-ray Images)，2021 第 26 屆國際資訊管理暨實務研討會(The 26th Conference on Information Management & Practice, IMP 2021)，2021, 十二月十八日(December 18, 2021)，雲林科技大學，雲林(Yunlin, Taiwan)。
10. 程崧哲、王彥晟、徐滋、徐毓璞, 張炎清*，“基於碎形維度特徵透過機器學習辨識肺部 X 光影像”(Recognizing Lung X-ray Images through Machine

Learning based on Fractal Dimension Features)，2022 人工智慧技術及應用研討會研討會(Artificial Intelligence Technology and Application, AITA2022)，台中科技大學，2022，五月二十日(May 20, 2022)，台中、台灣(Taichung, Taiwan)。

(D) 專書及專書論文

1. C.-M. Chang* and **Y.-C. Chang**, "A Gaming System for Shoulder Rehabilitation," pp. 147-167, Chapter 9, *Advances in Game Design and Development Research*, Edited by Garoline Martell, 2014.