

個人著作

(一) 《期刊論文》

- [1] **C. H. Chen**, C. J. Lin, and C. T. Lin, 2009, "Nonlinear System Control Using Adaptive Neural Fuzzy Networks Based on a Modified Differential Evolution," *IEEE Trans. on Systems, Man, and Cybernetics-Part C: Applications and Reviews*, Vol. 39, No. 4, pp. 459-473, July 2009. (SCI/EI, 2008 Impact Factor: 1.375)
- [2] **C. H. Chen**, C. J. Lin, and C. T. Lin, 2009, "Using an Efficient Immune Symbiotic Evolution Learning for Compensatory Neuro-Fuzzy Controller," *IEEE Trans. on Fuzzy Systems*, Vol. 17, No. 3, pp. 668-682, June 2009. (SCI/EI, 2008 Impact Factor: 3.624)
- [3] **C. H. Chen**, C. J. Lin, and C. T. Lin, 2008, "A Functional-Link-Based Neuro-Fuzzy Network for Nonlinear System Control," *IEEE Trans. on Fuzzy Systems*, Vol. 16, No. 5, pp. 1362-1378, Oct. 2008. (SCI/EI, 2008 Impact Factor: 3.624)
- [4] C. J. Lin, **C. H. Chen**, and C. T. Lin, 2009, "A Hybrid of Cooperative Particle Swarm Optimization and Cultural Algorithm for Neural Fuzzy Networks and Its Prediction Applications," *IEEE Trans. on Systems, Man, and Cybernetics-Part C: Applications and Reviews*, Vol. 39, No. 1, pp. 55-68, Jan. 2009. (SCI/EI, 2008 Impact Factor: 1.375)
- [5] C. J. Lin, **C. H. Chen**, and C. T. Lin, 2008, "Efficient Self-Evolving Evolutionary Learning for Neuro-Fuzzy Inference Systems," *IEEE Trans. on Fuzzy Systems*, Vol. 16, No. 6, pp. 1476-1490, Dec. 2008. (SCI/EI, 2008 Impact Factor: 3.624)
- [6] **C. H. Chen**, C. J. Lin, and C. T. Lin, 2008, "An Efficient Quantum Neuro-Fuzzy Classifier Based on Fuzzy Entropy and Compensatory Operation," *Soft Computing*, Vol. 12, No. 6, pp. 567-583, Apr. 2008. (SCI, 2008 Impact Factor: 0.984)
- [7] C. J. Lin, **C. H. Chen**, and C. Y. Lee, 2008, "Classification and Medical Diagnosis Using Wavelet-Based Fuzzy Neural Networks," *International Journal of Innovative Computing, Information and Control (IJICIC)*, Vol. 4, No. 3, pp. 735-748, Mar. 2008. (SCI Expanded, IF: 2.791)
- [8] C. Y. Lee, C. J. Lin, **C. H. Chen**, and C. L. Chang, 2008, "Dynamic System Identification Using a Recurrent Compensatory Fuzzy Neural Network," *International Journal of Control, Automation, and Systems*, Vol. 6, No. 5, pp. 755-766, Oct. 2008. (SCI Expanded, IF: 0.590)

- [9] C. J. Lin, **C. H. Chen**, and C. Y. Lee, 2008, "Efficient Immune-Based Particle Swarm Optimization Learning for Neuro-Fuzzy Networks Design," **Journal of Information Science and Engineering**, Vol. 24, No. 5, pp. 1505-1520, Sep. 2008. (SCI Expanded, IF: 0.242)
- [10] C. J. Lin, I. F. Chung, and **C. H. Chen**, 2007, "An Entropy-Based Quantum Neuro-Fuzzy Inference System for Classification Applications," **Neurocomputing**, Vol. 70, pp. 2502-2516, Aug. 2007. (SCI Expanded, IF: 1.234)
- [11] C. J. Lin, C. Y. Lee, and **C. H. Chen**, 2007, "A Novel Neuro-Fuzzy Inference System with Multi-level Membership Function for Classification Applications," **Journal of Advanced Computational Intelligence & Intelligent Informatics (JACI³)**, Vol.11, No.4, pp. 365-372, Apr. 2007.
- [12] **C. H. Chen**, C. J. Lin, and C. Y. Lee, 2007, "Efficient Reinforcement Hybrid Evolutionary Learning for Recurrent Wavelet-Based Neuro-Fuzzy Systems," **Lecture Notes in Artificial Intelligence (LNAI)**, Springer-Verlag, Vol. 4570, pp. 207-216, June 2007. (SCI Expanded)
- [13] C. J. Lin and **C. H. Chen**, 2006, "A Self-Organizing Quantum Neural Fuzzy Network and Its Applications," **Cybernetics and Systems**, Vol. 37, No. 8, pp. 839-859, Dec. 2006.(SCI Expanded, IF: 0.494)
- [14] C. J. Lin, **C. H. Chen**, and C. Y. Lee, 2006, "A TSK-Type Quantum Neural Fuzzy Network for Temperature Control," **International Mathematical Journal**, Vol. 1, No. 18, pp. 853-866, July 2006.
- [15] C. J. Lin and **C. H. Chen**, 2006, "A Compensation-Based Recurrent Fuzzy Neural Network for Dynamic System Identification," **European Journal of Operational Research**, Vol. 172, No. 2, pp. 696-715, Jan. 2006. (SCI Expanded, IF: 1.627)
- [16] C. J. Lin and **C. H. Chen**, 2005, "Identification and Prediction Using Recurrent Compensatory Neuro-Fuzzy Systems," **Fuzzy Sets and Systems**, Vol. 150, No. 2, pp. 307-330, Mar. 2005.(SCI/EI, IF: 1.833)
- [17] C. J. Lin, H. J. Chen, and **C. H. Chen**, 2005, "Dynamic System Identification Using Pseudo-Gaussian-Based Recurrent Compensatory Fuzzy Neural Networks," **Journal of The Chinese Institute of Engineers**, Vol. 28, No. 1, pp.55-65, Jan. 2005. (SCI Expanded/EI, IF: 0.227)
- [18] C. J. Lin and **C. H. Chen**, 2005, "A Self-Constructing Compensatory Neural Fuzzy System and Its Applications," **Mathematical and Computer Modelling**, Vol. 42, pp. 339-351, Aug. 2005. (SCI Expanded, IF: 1.032)
- [19] C. J. Lin and **C. H. Chen**, 2003, "Nonlinear System Control Using Compensatory Neuro-Fuzzy Networks," **IEICE Transactions on Fundamentals**

of Electronics, Communications and Computer Sciences, Vol. E86-A, No. 9, pp. 2309-2316, Sep. 2003. (SCI Expanded, IF: 0.437)

(二) 《會議論文》

- [1] **C. H. Chen**, Y. C. Liu, C. J. Lin, and C. T. Lin, 2008, "A Hybrid of Cooperative Particle Swarm Optimization and Cultural Algorithm for Neural Fuzzy Networks," *IEEE World Congress on Computational Intelligence (WCCI 2008)*, Hong Kong, June 1-4, 2008.
- [2] **C. H. Chen**, C. T. Lin, and C. J. Lin, 2007, "A Novel Recurrent Neuro-Fuzzy System and Its Applications," *Cross-Strait Workshop on Controls*, Taipei, Taiwan, R.O.C., pp. 69-74, Nov. 22-26, 2007.
- [3] **C. H. Chen**, C. J. Lin, and C. T. Lin, 2007, "A Recurrent Functional-Link-Based Neural Fuzzy System and Its Applications," *2007 IEEE Symposium on Computational Intelligence in Image and Signal Processing (CIISP2007)*, Honolulu, Hawaii, USA, pp. 415-420, Apr. 1-5, 2007. (EI)
- [4] **C. H. Chen**, C. T. Lin, and C. J. Lin, 2007, "A Functional-Link-Based Fuzzy Neural Network for Temperature Control," *2007 IEEE Symposium on Foundations of Computational Intelligence (FOCI 2007)*, Honolulu, Hawaii, USA, pp. 53-58, Apr. 1-5, 2007. (EI)
- [5] **C. H. Chen**, C. J. Lin, and C. T. Lin, 2006, "A Self-Constructing Compensatory Neural Fuzzy System for Nonlinear System Control," *The 14th National Conference on Fuzzy Theory and Its Applications*, Kaohsiung, Taiwan, R.O.C., Dec. 14-15, 2006.
- [6] **C. H. Chen**, C. T. Lin, and C. J. Lin, 2006, "Identification and Prediction Using Recurrent Compensatory Neuro-Fuzzy Systems," *The 14th National Conference on Fuzzy Theory and Its Applications*, Kaohsiung, Taiwan, R.O.C., Dec. 14-15, 2006.
- [7] **C. H. Chen**, C. T. Lin, and C. J. Lin, 2006, "A Novel Neuro-Fuzzy Inference System for Skin Color Detection," *The 19th IPPR Conference on Computer Vision, Graphics and Image Processing*, Taoyuan, Taiwan, R.O.C., Aug. 13-15, 2006.
- [8] C. T. Lin and **C. H. Chen**, 2005, "An Entropy-Based Neuro-Fuzzy Inference System for Classification Applications," *The First Taiwan Software Engineering Conference*, Taipei, Taiwan, R.O.C., pp. 189-194, June 3-4, 2005.
- [9] **C. H. Chen** and C. T. Lin, 2005, "Identification of Chaotic System Using Recurrent Compensatory Neuro-Fuzzy Systems," *IEEE Int'l Workshop on Cellular Neural Networks and their Applications*, Hsinchu, Taiwan, R.O.C., pp. 15-18, May 28-30, 2005. (EI)
- [10] C. J. Lin, **C. H. Chen** and C. Y. Lee, 2004, "A Self-Adaptive Quantum Radial

- Basis Function Network for Classification Applications," *IEEE Int'l Joint Conf. on Neural Networks*, Budapest, pp. 3263-3268, July 25-29, 2004. (EI)
- [11] **C. H. Chen**, C. J. Lin, and C. Y. Lee, 2003, "A Compensation-Based Recurrent Fuzzy Neural Network for Dynamic System Identification," *IEEE International Conference on Informatics, Cybernetics and Systems*, Kaohsiung, Taiwan, R.O.C., pp. 670-675, Dec. 15-16, 2003.
- [12] **C. H. Chen** and C. J. Lin, 2002, "A Self-Constructing Compensatory Neural Fuzzy System," *The Seventh Conference on Artificial Intelligence and Applications*, Wufeng, Taiwan, R.O.C., pp. 71-76, Nov. 15, 2002.