【Curriculum Vitae】

・ Name/ Position

Sheng-Ta Hsieh

Associate Professor
Dean for Research and Development

・Photo

・Office Address

Room 10801, Y.Z. Technology Building, No. 58, Sec. 2, Sichuan Rd., Banqiao Dist., New Taipei City 220, Taiwan (R.O.C.)

・E-mail / Tel / Fax

fo013@mail.oit.edu.tw

・Teaching Courses

Digital Logic Design

Microprocessor

Computational Intelligence

Artificial Intelligence

Introduction to RFID

Embedded System

Certification of Telecommunication Outside Plant

・The Highest Education Degree

Ph.D., Dept. of E.E., National Dong Hwa University

・Research Area

Evolutionary Computation, Neural Network, Fuzzy System, Embedded System

・Recent Publications

Journal Papers

1. **Sheng-Ta Hsieh** and Chun-Ling Lin*, "Intelligent healthcare system using an Arduino microcontroller and android-based smartphone," *Biomedical Research*, 28(22), pp. 9940-9946, Nov. 2017

2. **Sheng-Ta Hsieh**, Chun-Ling Lin*, "A Beat-to-Beat Atrial Fibrillation Detecting System," Journal of Cardiovascular Diseases & Diagnosis, DOI: 10.4172/2329-9517.S2-001, Nov. 2017.

3. **Sheng-Ta Hsieh**, Chun-Ling Lin*, Pen-Wen Su and Wei-De Li, "Real-Time Reservation and Ordering System," Applied Science and Management Research, pp.148-155, Sep. 2016.

4. **Sheng-Ta Hsieh**, Shi-Jim Yen, Chun-Ling Lin*, Shih-Yuan Chiu and Tsan-Cheng Su, "Solving The Flexible Job Shop Problem using Multi-Objective Optimizer with Solution Characteristic Extraction," *Applied Mathematics & Information Sciences*, vol. 10, No. 5, pp. 1815-1830, Sep. 2016. (SCI, IF=1.232, Mathematics, Applied, Rank=53/251, Q1)

5. **Sheng-Ta Hsieh***, Shih-Yuan Chiu and Shi-Jim Yen, "Adaptive Search Range and Multi-Mutation Strategies for Differential Evolution," *Journal of Information Science and Engineering*, pp. 749-763, May. 2014. (SCI, IF=0.333, Computer Science, Information Systems, Rank=128/135, Q4)

6. **Sheng-Ta Hsieh***, Shih-Yuan Chiu and Shi-Jim Yen, "An Improved Multi-Objective Genetic Algorithm for Solving Multiobjective Problems," *Applied Mathematics & Information Sciences*, vol.7, no. 5, pp. 1933-1941, Sep. 2013. (SCI, IF=1.232, Mathematics, Applied, Rank=53/251, Q1)

7. Tsung-Ying Sun*, Chan-Cheng Liu, Shang-Jeng Tsai, and **Sheng-Ta Hsieh** and Kan-Yuan Li, "Cluster Guide Particle Swarm Optimization (CGPSO) for Underdetermined Blind Source Separation with Advanced Conditions," *IEEE Trans. on Evolutionary Computation*, vol. 15, no. 6, pp. 798-811, Dec. 2011. (SCI, IF=5.545, Computer science, Theory & Methods, Rank=1/102, Q1)

8. Chan-Cheng Liu, Tsung-Ying Sun*, Shang-Jeng Tsai, Yu-Hsiang Yu, and **Sheng-Ta Hsieh**, "Heuristic wavelet shrinkage for denoising," *Applied Soft Computing*, vol. 11, issue 1, pp. 256-264, Jan. 2011. (SCI, IF=2.679, Computer Science, Artificial Intelligence, Rank=20/121, Q1)

9. Shang-Jeng Tsai, Tsung-Ying Sun*, Chan-Cheng Liu, **Sheng-Ta Hsieh**, Wun-Ci Wu and Shih-Yuan Chiu, "An Improved Multi-Objective Particle Swarm Optimizer for Multi-Objective Problems," *Expert Systems with Applications*, vol. 37, no. 8 , pp. 5872-5886, Aug. 2010. (SCI, IF=1.965, Computer Science, Artificial Intelligence, Rank=30/121, Q1)

10. **Sheng-Ta Hsieh***, Shih-Yuan Chiu, Tsung-Ying Sun, and Shi-Jim Yen, "Balanced Guides Assignment for

Multi-Objective Particle Swarm Optimizer," *Journal of Computational Information Systems* (JCIS), vol. 6, no. 7, pp. 2107-2118, Jul. 2010. (EI)

11. **Sheng-Ta Hsieh**, Tsung-Ying Sun*, Chan-Cheng Liu, and Shang-Jeng Tsai, "Potential Offspring Production Strategies: An Improved Genetic Algorithm for Global Numerical Optimization," *Expert Systems with Applications*, vol. 36, no. 2, pp. 11088-11098, Oct. 2009. (SCI, IF=1.965, Computer Science, Artificial Intelligence, Rank=30/121, Q1)

12. Chan-Cheng Liu, Tsung-Ying Sun*, Shang-Jeng Tsai, and **Sheng-Ta Hsieh** "Blind Source Separation with Dynamic Source Number Using Adaptive Neural Algorithm," *Expert Systems with Applications*, vol. 36, no. 4, pp. 8855-8861, Jul. 2009. (SCI, IF=1.965, Computer Science, Artificial Intelligence, Rank=30/121, Q1)

13. **Sheng-Ta Hsieh**, Tsung-Ying Sun*, Chan-Cheng Liu, and Shang-Jeng Tsai, "Efficient Population Utilization Strategy for Particle Swarm Optimizer," *IEEE Trans. on System, Man and Cybernetics, Part B – Cybernetics*, vol. 39, no. 2, pp. 444-456, Apr. 2009. (SCI, IF = 3.236, Computer science, artificial intelligence, Rank=12/114, Q1)

14. Tsung-Ying Sun*, Chan-Cheng Liu, **Sheng-Ta Hsieh**, and Shang-Jeng Tsai, "Blind Separation with Unknown Number of Sources Based on Auto-trimmed Neural Network," *Neurocomputing*, vol. 71(12), pp. 2271-2280, Jun. 2008. (SCI, IF = 2.005, Computer Science, Artificial Intelligence, Rank=28/121, Q1)

15. **Sheng-Ta Hsieh**, Tsung-Ying Sun*, Chun-Ling Lin, and Chan-Cheng Liu, "Effective Learning Rate Adjustment of Blind Source Separation on an Improved Particle Swarm Optimizer," *IEEE Trans. on Evolutionary Computation*, vol. 12, no. 2, pp. 242-251, Apr. 2008. (SCI, IF=5.545, Computer science, Theory & Methods, Rank=1/102, Q1)

16. **Sheng-Ta Hsieh**, Tsung-Ying Sun*, Chan-Cheng Liu, and Cheng-Wei Lin, "An Improved Particle Swarm Optimization for Placement Constraints and Macrocell Overlap Removal," *Journal of Artificial Evolution and Applications*, *Special Issue on Particle Swarms*: *The Second Decade*, vol. 2008 (2008), Article ID 514879, 10 pages, Open Access Journal.

Book Chapter

1. Tsung-Ying Sun*, Chan-Cheng Liu, Chun-Ling Lin, **Sheng-Ta Hsieh**, and Cheng-Sen Huang, "A Radial Basis Function Neural Network with Adaptive Structure via Particle Swarm Optimization," Chapter 26, Particle Swarm Optimization, Edited by Alexander Zemliak, I-Tech, pp. 423-436, Jan. 2009.

International Conference Papers

1. Sheng-Ta Hsieh, Chun-Ling Lin and Hao-Wen Cheng, "Adaptive Artificial Bee Colony for Numerical Optimization," in *proc*. of The Sixth International Symposium on Computing and Networking (CANDAR'18), pp. 174-177, Hida Takayama, Japan, November 27-30, 2018.

2. Sheng-Ta Hsieh and Chun-Ling Lin, "Detection and parameter estimation of R peaks in ECG signal using optimization algorithm," in *proc*. of The Sixth International Symposium on Computing and Networking (CANDAR'18), pp. 170-173, Hida Takayama, Japan, November 27-30, 2018.

3. Yi-Xiang Chen, <u>Sheng-Ta Hsieh</u> and Chun-Ling Lin*, "The electrocardiogram interpretation system in homecare," in *proc*. of 4th IEEE International Conference on Applied System Innovation 2018 (IEEE ICASI 2018), pp. 1167-1170, Chiba, Tokyo, Apr. 13-14, 2018.

4. <u>Sheng-Ta Hsieh</u> and Chun-Ling Lin*, "Innovative R peak detecting algorithm using enhanced artificial bee colony" in *proc*. of 4th IEEE International Conference on Applied System Innovation 2018 (IEEE ICASI 2018), pp. 570-573, Chiba, Tokyo, Apr. 13-14, 2018.

5. <u>Sheng-Ta Hsieh*</u>, Hao-Wen Cheng, Chun-Ling Lin and Tsung-Ying Sun, "Biologically Adaptive Artificial Bee Colony for Numerical Optimization," in *proc*. of The Third International Symposium on Computing and Networking (CANDAR 2017), pp. 187-193, Aomori, Japan, Nov. 19-22, 2017.

6. Chun-Ling Lin, <u>Sheng-Ta Hsieh*</u> and Shih-Yuan Chiu, "Improved Differential Evolution with Searching Pioneer for Solving Multi-modal Optimization Problems," in *proc*. of The Third International Symposium on Computing and Networking (CANDAR 2017), pp. 101-105, Aomori, Japan, Nov. 19-22, 2017.

7. <u>Sheng-Ta Hsieh</u>, Jhan-Fong Yu, Chun-Ling Lin, "An Intelligent Fall Detection System Using Wearable Accelerometers and Android based Smartphone," in *proc*. of 2017 International Conference on Smart Science (ICSS 2017), Huis Ten Bosch, Japan, Apr. 6-10, 2017.

8. <u>Sheng-Ta Hsieh*</u> and Chun-Ling Lin, "Improved Differential Evolution with Mutual Learning Strategy for Solving Numerical Optimization Problems," in *proc*. of 2017 International Conference on Smart Science (ICSS 2017), Huis Ten Bosch, Japan, Apr. 6-10, 2017.

9. Sheng-Ta Hsieh and Chun-Ling Lin*, "Multi-Objective Artificial Bee Colony with Multi-Movement Strategies for Solving Multi-objective Optimization Problems," in *proc*. of 2016 Asia Pacific Industrial Engineering and. Management System Conference (APIEMS 2016), pp.1-6, Taipei City, Taiwan, Dec. 7-10, 2016.

10. <u>Sheng-Ta Hsieh</u> and Chun-Ling Lin*, "An Improved Artificial Bee Colony for Solving Multi-objective Optimization Problems," in *proc*. of 2016 International Conference on Multimedia Systems and Signal Processing (ICMSSP), pp. 56-59, New Taipei City, Taiwan, Sep. 3-5, 2016.

11. <u>Sheng-Ta Hsieh</u> and Chun-Ling Lin*, "An Intelligent Diagnosis Flu System based on Adaptive Neuro-Fuzzy Classifier," in *proc*. of The Third International Symposium on Computing and Networking (CANDAR 2015), pp. 547-550, Sapporo, Japan, Dec. 8-11, 2015.

12. Chun-Ling Lin, <u>Sheng-Ta Hsieh*</u> and Shih-Yuan Chiu, "Efficient Exploration Strategies for Artificial Bee Colony," in *proc*. of The Third International Symposium on Computing and Networking (CANDAR 2015), pp. 309-313, Sapporo, Japan, Dec. 8-11, 2015.

13. <u>Sheng-Ta Hsieh*</u>, Chun-Ling Lin and Shih-Yuan Chiu, "Artificial Bee Colony with Enhanced Food Source Search Strategies," in *proc*. of International Conference on Applied System Innovation (ICASI 2015), Osaka, Japan, May 22-27, 2015.

14. Chun-Ling Lin, Huang-Lyu Wu and <u>Sheng-Ta Hsieh*</u>, "Competition based Differential Evolution for Global Numerical Optimization," in *proc*. of International Conference on Applied System Innovation (ICASI 2015), Osaka, Japan, May 22-27, 2015.

15. <u>Sheng-Ta Hsieh</u> and Chun-Ling Lin*, "Work-In-Progress: An intelligent diagnosis influenza system based on adaptive neuro-fuzzy inference system," in *proc*. of 1st International Conference on Industrial Networks and Intelligent Systems (INISCom 2015), pp. 177-180, Tokyo, Japan, Mar. 2-4, 2015.

16. Chun-Ling Lin, <u>Sheng-Ta Hsieh</u>* and Shih-Yuan Chiu, "Work-In-Progress: Adaptive Population Artificial Bee Colony for Numerical Optimization," in *proc*. of 1st International Conference on Industrial Networks and Intelligent Systems (INISCom 2015), pp. 168-171, Tokyo, Japan, Mar. 2-4, 2015.

17. Chun-Ling Lin, <u>Sheng-Ta Hsieh</u>*, Huang-Lyu Wu and Tse Su, "Robust Differential Evolution for solving Numerical Optimization Problems," in *proc*. of 1st International Conference on Industrial Networks and Intelligent Systems (INISCom 2015), pp. 122-125, Tokyo, Japan, Mar. 2-4, 2015.

18. <u>Sheng-Ta Hsieh</u>*, Chun-Ling Lin and Shih-Yuan Chiu, "Adaptive mutation strategies and population for Differential Evolution," in *proc*. of International Symposium on Artificial and Robotics.(AROB 19th '14), pp. 854-858, Beppu, Oita, Japan, Jan. 22-24, 2014.

19. Chun-Ling Lin, <u>Sheng-Ta Hsieh</u>* and Jhih-Sian Chen, "Artificial Bee Colony Algorithm with Dimension Manager for Global Numerical Optimization," in *proc*. of International Symposium on Artificial and Robotics.(AROB 19th '14), pp. 867-871, Beppu, Oita, Japan, Jan. 22-24, 2014.

20. <u>Sheng-Ta Hsieh</u>*, Huang-Lyu Wu and Tse Su, "Dual Mutation Strategies and Dual Crossover Strategies for Differential Evolution," in *Proc.* of 4th International Workshop on Advances in Networking and Computing, pp. 577-581, Matsuyama, Japan, Dec. 4-6, 2013.

21. <u>Sheng-Ta Hsieh</u>*, Tse Su and Huang-Lyu Wu "An Improved Differential Evolution with Efficient Parameters Adjustment," in *Proc.* of 4th International Workshop on Advances in Networking and Computing, pp. 627-629, Matsuyama, Japan, Dec. 4-6, 2013.

22. Chun-Ling Lin, <u>Sheng-Ta Hsieh</u>* and You-Jhong Hu, "Fuzzy Neural Network-Based Influenza Diagnostic System," in *Proc.* of 4th International Workshop on Advances in Networking and Computing, pp. 633-635, Matsuyama, Japan, Dec. 4-6, 2013.

23. <u>Sheng-Ta Hsieh</u>* and, Bo-Han, "Competition-based Particle Swarm Optimizer for solving Numerical Optimization Problems," in *Proc*. of International Symposium on Artificial and Robotics.(AROB 18th '13), pp. 608-611, Daejeon, Korea, Jan. 30-Feb.1, 2013.

24. <u>Sheng-Ta Hsieh</u>*, Huang-Lyu Wu and Tse Su, "Elitist Differential Evolution for solving Numerical Optimization Problems," in *Proc*. of International Symposium on Artificial and Robotics.(AROB 18th '13), pp. 612-615, Daejeon, Korea, Jan. 30-Feb.1, 2013.

25. <u>Sheng-Ta Hsieh</u>* and Jhih-Sian Chen, "Artificial Bee Colony Algorithm with Crossover Strategy for Global Numerical Optimization," in *Proc*. of International Symposium on Artificial and Robotics.(AROB 18th '13), pp. 616-619, Daejeon, Korea, Jan. 30-Feb.1, 2013.

26. <u>Sheng-Ta Hsieh</u>*, Shih-Yuan Chiu and Shi-Jim Yen, "Adoptive Population Differential Evolution with Local Search for Solving Large Scale Global Optimization," in *Proc*. of The 2012 IEEE International Conference on Systems, Man, and Cybernetics (IEEE SMC 2012), pp. 1090-1094, COEX, Seoul, Korea, Oct. 14-17, 2012.

27. <u>Sheng-Ta Hsieh</u>*, Chih-Dao Chen, Jun-Horng Chen, Chin-Lun Lai and Yu-Long Syu, "An Expert System Application for Respiratory Infection Diagnostic," in *Proc*. of The 9th IEEE International Conference on Ubiquitous Intelligence and Computing (UIC 2012), pp. 673-678, Fukuoka, Japan, Sep. 4-7, 2012.

28. Teng-Hui Tseng, <u>Chin-Lun Lai</u>*, Sheng-Ta Hsieh, Jun-Horng Chen, "An intelligent accessing control system based on human intention analysis," in *Proc*. of The 9th IEEE International Conference on

Ubiquitous Intelligence and Computing (UIC 2012), pp. 337-347, Fukuoka, Japan, Sep. 4-7, 2012.

29. <u>Jun-Horng Chen</u>*, Teng-Hui Tseng, Chin-Lun Lai, Sheng-Ta Hsieh, "An intelligent virtual fence security system for the detection of people invading," in *Proc.* of The 9th IEEE International Conference on Ubiquitous Intelligence and Computing (UIC 2012), pp. 786-791, Fukuoka, Japan, Sep. 4-7, 2012.

30. <u>Sheng-Ta Hsieh</u>*, Shih-Yuan Chiu and Shi-Jim Yen, "An Improved Differential Evolution for solving Large Scale Global Optimization," in *Proc.* of International Symposium on Artificial and Robotics.(AROB 17th '12), pp. 1169-1170, Beppu, Oita, Japan, Jan. 19-21, 2012.

31. Shi-Jim Yen, Shih-Yuan Chiu and <u>Sheng-Ta Hsieh</u>*, "Genetic Algorithm with Cross Paths Detection for Solving Traveling Salesman Problems," in *Proc.* of International Symposium on Artificial and Robotics. (AROB 17th '12), pp. 1155-1156, Beppu, Oita, Japan, Jan. 19-21, 2012.

32. <u>Sheng-Ta Hsieh</u>*, Shih-Yuan Chiu, and Shi-Jim Yen, "Sharing Mutation Genetic Algorithm for Solving Multi-objective Optimization Problems," in *Proc. of 2011 IEEE Congress on Evolutionary Computation* (CEC 2011), pp. 1833-1839, New Orleans, USA, Jun. 5-8, 2011. (NSC 99-2221-E-161-008)

33. <u>Sheng-Ta Hsieh</u>*, "RFID medical information system: A system implementation on MSP430 platform," in *Proc. of 2011 International Conference on Consumer Electronics, Communications and Networks* (CECNet), pp. 1-4, Xianning, China, Apr. 16-18, 2011.

34. <u>Sheng-Ta Hsieh</u>*, Shih-Yuan Chiu, and Shi-Jim Yen, "An improved Multi-Objective Genetic Algorithm for Solving Flexible Job Shop Problem," in *Proc. of The IET International Conference on Frontier Computing-Theory, Technology and Applications*, pp. 427-431, Taichung, Taiwan, Aug. 4-6, 2010.

35. Chan-Cheng Liu, <u>Sheng-Ta Hsieh</u>*, and Wei-Chih Huang, "Evolutionary Noise Reduction Based on Correlation Evaluation," in *Proc. of The IET International Conference on Frontier Computing-Theory, Technology and Applications*, pp. 411-415, Taichung, Taiwan, Aug. 4-6, 2010.

36. <u>Tsung-Ying Sun</u>*, Chan-Cheng Liu, Yu-Peng Jheng, Jyun-Hong Jheng, and Sheng-Ta Hsieh, "Blind image deconvolution via particle swarm optimization with entropy evaluation," in *Proc. of International Conference on Intelligent Systems Design and Applications* (ISDA), pp. 265-270, Kaohsiung City, Taiwan, Nov. 26-28, 2008.

37. <u>Tsung-Ying Sun</u>*, Chan-Cheng Liu, Tsung-Ying Tsai, Jyun-Hong Jheng, and Sheng-Ta Hsieh, "Threshold exploration via particle swarm optimizer at profitable wavelet decomposition for noise reduction," in *Proc. of IEEE Conference on System, Man, and Cybernetics* (IEEE SMC 2008), pp. 2652-2657, Singapore, Oct. 12-15, 2008.

38. <u>Tsung-Ying Sun</u>*, Wun-Ci Wu, Shang-Jeng Tsai, Chan-Cheng Liu, Shih-Yuan Chiu, and Sheng-Ta Hsieh, "Particle swarm optimizer for multi-objective problems based on proportional distribution and cross-over operation," in *Proc. of IEEE Conference on System, Man, and Cybernetics* (IEEE SMC 2008), pp. 2658-2663, Singapore, Oct. 12-15, 2008.

39. <u>Sheng-Ta Hsieh</u>*, Tsung-Ying Sun, Chan-Cheng Liu, and Chun-Ling Lin, "Sharing Evolution Genetic Algorithm for Global Numerical Optimization," in *Proc. of 2008 IEEE Conference on Soft Computing in Industrial Applications* (SMCia/08), pp. 326-331, Muroran Hokkaido, Japan, Jun. 25-28, 2008.

40. <u>Tsung-Ying Sun</u>*, Chan-Cheng Liu, Sheng-Ta Hsieh, Tsung-Ying Tsai, and Jyun-Hong Jheng, "Optimal

Determination of Wavelet Threshold and Decomposition Level via Heuristic Learning for Noise Reduction," in *Proc. of* 2008 IEEE Conference on Soft Computing in Industrial Applications (SMCia/08) , pp. 405-410, Muroran Hokkaido, Japan, Jun. 25-28, 2008.

41. <u>Sheng-Ta Hsieh</u>*, Tsung-Ying Sun, Chan-Cheng Liu, and Shang-Jeng Tsai, "Solving Large Scale Global Optimization Using Improved Particle Swarm Optimizer," in *Proc. of 2008 IEEE Congress on Evolutionary Computation* (IEEE CEC 2008), pp. 1777-1784, Hong Kong, June 1-6, 2008.

42. <u>Tsung-Ying Sun</u>*, Chan-Cheng Liu, Tsung-Ying Tsai, and Sheng-Ta Hsieh, "Adequate Determination of a Band of Wavelet Threshold for Noise Cancellation Using Particle Swarm Optimization," in *Proc. of 2008 IEEE Congress on Evolutionary Computation* (IEEE CEC 2008), pp. 1168-1175, Hong Kong, June 1-6, 2008.

43. Shih-Yuan Chiu, Sheng-Ta Hsieh, <u>Tsung-Ying Sun</u>*, and Cheng-Wei Lin, "Cross-Searching Strategy for Multi-objective Particle Swarm Optimization," in *Proc. of IEEE Congress on Evolutionary Computation 2007* (CEC 2007), pp. 3135-3141, Singapore, Sep. 25-28, 2007.

44. Sheng-Ta Hsieh, <u>Tsung-Ying Sun</u>*, Shih-Yuan Chiu, and Pe-Dan Chang, "Multi-Objective Particle Swarm Optimization for Embedded Systems Design," in *Proc. of 8th International Symposium on advanced Intelligent Systems* (ISIS 2007), pp. 217-220, Sokcho City, Korea , Sep. 5-8, 2007.

45. Chan-Cheng Liu, Kan-Yuan Li, <u>Tsung-Ying Sun</u>*, Sheng-Ta Hsieh, and Shang-Jeng Tsai, "A Robust Blind Sparse Source Separation Algorithm Using Genetic Algorithm to Identify Mixing Matrix," in *Proc. of IASTED International Conference on Signal Processing, Pattern Recognition and Applications* (SPPRA 2007), pp. 289-294, Innsbruck, Austria, Feb. 14-16, 2007.

46. Sheng-Ta Hsieh, <u>Tsung-Ying Sun</u>*, Jian-Ming Chen, Chan-Cheng Liu, and Shang-Jeng Tsai, "Genetic Algorithm: A Seesaw Method for Generating Offspring," in *Proc. of IASTED International Conference on Modeling, Identification and Control* (MIC 2007), pp. 477-481, Innsbruck, Austria, Feb. 12-14, 2007.

47. Sheng-Ta Hsieh, <u>Tsung-Ying Sun</u>*, Shih-Yuan Chiu, Chan-Cheng Liu, and Cheng-Wei Lin, "Cluster Based Solution Exploration Strategy for Multi-objective Particle Swarm Optimization," in *Proc. of IASTED International Conference on Artificial Intelligence and Applications* (AIA 2007), pp. 295-300, Innsbruck, Austria, Feb. 12-14, 2007.

48. Chan-Cheng Liu, <u>Tsung-Ying Sun</u>*, Kan-Yuan Li, Sheng-Ta Hsieh, and Shang-Jeng Tsai, "Blind Sparse Source Separation Using Cluster Particle Swarm Optimization Technique," in *Proc. of IASTED International Conference on Artificial Intelligence and Applications* (AIA 2007), pp. 82-87, Innsbruck, Austria, Feb. 12-14, 2007.

49. Chan-Cheng Liu, <u>Tsung-Ying Sun</u>*, Sheng-Ta Hsieh, Chun-Ling Lin, and Kan-Yuan Lee "A Hybrid Blind Signal Separation Algorithm: Particle Swarm Optimization on Feed-forward Neural Network," in *Proc. of 13th International Conference on Neural Information Processing* (ICONIP2006), *Lecture Notes in Computer Science*, LNCS 4232, pp. 1078-1087, Springer-Verlag, Oct. 2006.

50. Sheng-Ta Hsieh, <u>Tsung-Ying Sun</u>*, Cheng-Wei Lin, and Chun-Ling Lin "Placement Constraints and Macrocell Overlap Removal Using Particle Swarm Optimization," in *Proc. of 5th International Workshop on Ant Colony Optimization and Swarm Intelligence, Lecture Notes in Computer Science*, LNCS 4150, pp. 235-246, Springer-Verlag, Sep. 2006.

51. Chun-Ling Lin, Sheng-Ta Hsieh, <u>Tsung-Ying Sun</u>*, and Chan-Cheng Liu, "Cluster Distance Factor Searching by Particle Swarm Optimization for Self-Growing Radial Basis Function Neural Network," in *Proc. of 2006 International Joint Conference on Neural Networks* (IJCNN 2006), pp. 9879-9884, Vancouver, Canada, July 16-21, 2006.

52. Sheng-Ta Hsieh, <u>Tsung-Ying Sun</u>*, Jian-Ming Chen, and Cheng-Wei Lin "Efficient Task Scheduling for Heterogeneous Multiprocessors Using Particle Swarm Optimization," in *Proc. of 2006 IEEE Swarm Intelligence Symposium* (SIS'06), Indianapolis, USA, May 12-14, 2006.

53. <u>Tsung-Ying Sun</u>*, Sheng-Ta Hsieh, Hsiang-Min Wang, and Cheng-Wei Lin, "Floorplanning Based on Particle Swarm Optimization," in *Proc. of IEEE Computer Society Annual Symposium on VLSI* (ISVLSI 2006), pp. 7-11, Karlsruhe, Germany, Mar. 2-3, 2006.

54. Chun-Ling Lin, Sheng-Ta Hsieh, <u>Tsung-Ying Sun</u>*, and Chan-Cheng Liu, "PSO-Based Learning Rate Adjustment for Blind Source Separation," in *Proc. of 2005 International Symposium on Intelligent Signal Processing and Communication Systems* (ISPAC 2005), pp. 181-184, Hong Kong, Dec. 13-16, 2005.

55. <u>Tsung-Ying Sun</u>*, Sheng-Ta Hsieh, and Cheng-Wei Lin, "Particle swarm optimization Incorporated with disturbance for improving the efficiency of macrocell overlap removal and placement," in *Proc. of The 2005 International Conference on Artificial Intelligence* (ICAI'05), pp. 122-125, Las Vegas, Nevada, U.S.A., June 27-30, 2005.

56. Sheng-Ta Hsieh, Cheng-Wei Lin, and <u>Tsung-Ying Sun</u>*, "Particle Swarm Optimization for Macrocell Overlap Removal and Placement," in *Proc. of 2005 IEEE Swarm Intelligence Symposium* (SIS'05), pp. 177-180, Pasadena, CA, U.S.A., June 8-10, 2005.