*林文彥助理教授
所有發表期刊論文及研討會論文

A. Journal Papers:

1. **Wen-Yen Lin**, Wen-Cheng Chou, Rongfeng Chang, and Ming-Yih Lee, "The design and development of a wearable posture monitoring vest," Submitted to *IEEE Tran. On Consumer Electronics*, 2014.

2. Ming-Yih Lee, **Wen-Yen Lin**, and Chih-Feng Lin, "Development of a biofeedback inertial-based motion sensing modality," Accepted for publication in *Journal of the Chinese Society of Mechanical Engineers*, 2013. (**SCI**)

3. Ming-Yih Lee, Kok-Soon Soon, **Wen-Yen Lin**, and Wann-Yun Shieh, "A New Biofeedback Lower Limb Neuroprothesis for Balance Control and Sensory Compensation in Amputees," *Journal of Neuroscience and Neuroengineering,* vol.2, no. 2, pp.90~97, April 2013. (**SCI**)

4. Kin Fong Lei, Shin-Chung Cheng, Ming-Yih Lee, and **Wen-Yen Lin**, "Measurement and Estimation of Muscle Contraction Strength using Mechanomyography based on Artificial Neural Network Algorithm," *Biomedical Engineering: Applications, Basis and Communications*, vol. 25, no. 2, pp. 1350020-1-8, March 2013. (**SCI**, **IF = 0.236, 70/72**)

5. Wen-Wei Tsai, Ming-Yih Lee, Wen-Lin Yeh, Shih-Chung Cheng, Kok-Soon Soon, Kin Fong Lei, and **Wen-Yen Lin**, "A quantitative method for evaluating inferior glenohumeral joint stiffness using ultrasonography," *Medical Engineering & Physics*, vol. 35, no. 2, pp. 236-240, Feb. 2013. (**SCI, IF=1.906, 28/69**)

6. Jeffrey S. Fu, W. P. Lin, **W. Y. Lin**, K. S. Chin, H. C. Chiu, H. L. Kao and Y. H. Chang, "High Speed Intelligent Communication for Tele-Care Early Warning System - A Survey," *Journal of University of Electronic Science & Technology of China (JUESTC)*, vol. 40, no. 6, pp. 802-814, Nov. 2011. (**EI**)

7. Cheng-Rong Tsai, **Wen-Yen Lin**, and Tsung-Hsien Liu, "Computationally-Efficient Complex QR-Decomposition Architecture Design for MIMO Detection," *International Journal of Electrical Engineering (IJEE),* vol. 18, no. 5, pp. 192-208, Oct. 2011. (**EI**)

8. Non-Strict Execution in Parallel and Distributed Computing Alfredo Cristobal-Salas, Andrei Tchernykh, Jean-Luc Gaudiot, and Wen-Yen Lin International Journal of Parallel Programming, Vol. 31, No. 2, pp. 77-105, April 2003 (SCI, EI)

9. Exploiting Locality in Single Assignment Data Structures Updated through Split-Phase Transactions Jose Nelson Amaral, Wen-Yen Lin, Jean-Luc Gaudiot, and Guang R. Gao Cluster Computing, Special Issue on Internet Scalability: Advances in Parallel, Distributed and Mobile Systems, Vol. 4, No. 4, pp. 281-293, October 2001 (SCI, EI)

B. Conference Papers:

1. Honghua Zhang, Xiaoyu Chen, **Wen-Yen Lin**, Wen-Cheng Chou, and Ming-Yih Lee, "A novel accelerometer-based method for the real-time assessment of Parkinson's tremor," *2014 6th International High Speed Intelligent Communication Forum (HSIC'14)*, Beijing, China, Dec. 2014.

2. Fu-Yao Lin, **Wen-Yen Lin**, and Ming-Yih Lee, "The Development of a Multi-posture Sensing System," *2014 7th International Conference on BioMedical Engineering and Informatics (BMEI 2014)*, Dalian, China, Oct. 2014.

3. Wen-Shao Wu, **Wen-Yen Lin**, and Ming-Yih Lee, "Forward-flexed Posture Detection for the Early Parkinson's Disease Symptom," *2014 IEEE Intl. Conf. on Systems, Man, and Cybernetics (SMC 2014)*, San Diego, CA, USA, Oct. 2014.

4. **Wen-Yen Lin**, Ming-Yih Lee, and Wen-Cheng Chou, "The design and development of a wearable posture monitoring vest," *2014 IEEE Intl. Conf. on Consumer Electronics (ICCE 2014)*, Las Vegas, USA, Jan. 2014.

5. Wen-Cheng Chou, **Wen-Yen Lin**, Ming-Yih Lee, and Kin Fong Lei, "Design and assessment of a real-time accelerometer-based lying-to-sit sensing system for bed fall prevention," *2013 IEEE Intl. Conf. on Systems, Man, and Cybernetics (SMC 2013)*, Manchester, UK, Oct. 2013.

6. Wei-Ting Liao, **Wen-Yen Lin**, Wen-Cheng Chou, Kin Fong Lei, and Ming-Yih Lee, "Precision Enhancement and Performance Evaluation of a CORDIC-Based Tilting Angle Identification Algorithm for Three-Axis Accelerometers," *The 2013 International Symposium on Biometrics and Security Technologies (ISBAST'13)*, China, July 2-5, 2013. (**EI**)

7. Chun-Liang Hsu, Wen-Cheng Chou, and **Wen-Yen Lin**, "A Digital Tilt Converter for Three-Axis Accelerometers," *2013 the 17th IEEE International Symposium on Consumer Electronics (**ISCE 2013**)*, Taiwan, June 3-6, 2013

8. Ming-Yih Lee, and **Wen-Yen Lin**, "Design of Intelligent Rehabilitation Modalities with Body Sensor and Actuator Networks (BSANs)," *2013 International Conference on Advanced Robotics and Intelligent Systems (**ARIS 2013**)*, Taiwan, May 31-June 2, 2013

9. Sheng-Hsiang Chang, Wen-Cheng Chou and **Wen-Yen Lin**, "A Real-time Gesture Recognition Implementation on SoC Development Platform," *2012 the 2nd IEEE International Conference on Consumer Electronics – Berlin (**ICCE-Berlin'12**)*, Berlin, Sep. 2012.

10 Wen-Cheng Chou, **Wen-Yen Lin**, and Wei-Ting Liao, "The Design of a real-time rising sensing system and its application on fall pre-warning", *2012 The 17th Mobile Computing Workshop*, Taiwan, Aug. 2012.

11. Wei-Ting Liao, and **Wen-Yen Lin**, "Precision Enhancement of CORDIC-Based Inclination Sensing Algorithm Using Three-Axis Accelerometer-Based Inertial Sensors," *2012 The 17th Mobile Computing Workshop*, Taiwan, Aug. 2012.

12. **Wen-Yen Lin**, Wen-Cheng Chou, Ming-Yih Lee, Kin-Fong Lei, "Accelerometer-based body sensing for healthy aging," Invited, *2012 4th International High Speed Intelligent Communication Forum (**HSIC'12**)*, Nanjing, China, May 2012.

13. Xu Yao, Guangmin Sun, **Wen-Yen Lin**, and Wen-Cheng Chou, "The Design of a Real-Time Accelerometer-Based Sleeping Position Monitoring System and its Application on Obstructive Sleep Apnea Syndrome," *2012 International Conference on Systems and Informatics (**ICSAI'12**)*, Yantai, China, May 2012.

14. Xu Yao, **Wen-Yen Lin**, Wen-Cheng Chou, Kin Fong Lei, Ming-Yih Lee, and Guangmin Sun, "The Design of an In-Line Accelerometer-Based Inclination Sensing System," *2012 IEEE International Symposium on Circuits and Systems (**ISCAS'12**)*, Seoul, Korea, May 2012.

15. **Wen-Yen Lin**, Wen-Cheng Chou, Xu Yao, Kin Fong Lei, Ming-Yih Lee, "A Real-Time Accelerometer-Based Inclination Sensing System and the Application on Early Warning for High Falling-Risk People," *2012 Symposium on Emerging*

*Technologies in Biomedical & Healthcare Applications (**SETBHA'12**)*, Tao-Yuan, Taiwan, Apr. 2012.

16. Wei-Ting Liao, W.-C. Chou, **Wen-Yen Lin**, Kin Fong Lei, Wen-Wei Tsai and Ming-Yih Lee, "CORDIC-Based Inclination Sensing Algorithm Using Three-Axis Accelerometer-Based Inertial Sensors," *2011 4th International Conference on BioMedical Engineering and Informatics (**BMEI'11**),* Shang-Hei, China, Oct. 15-17, 2011. (**EI**)

17. Kin Fong Lei, Wen-Wei Tsai, **Wen-Yen Lin**, and Ming-Yih Lee, "MMG-Torque Estimation under Dynamic Contractions," *2011 IEEE International Conference on Systems, Man, and Cybernetics (**SMC'11**),* Anchorage, Alaska, USA, Oct. 9-12, 2011.

18. Tsai Wen-Wei, Lee Ming-Yih, Lei Kin Fong, **Lin Wen-Yen**, Yeh Wen-Lin, and Soon Kok-Soon, "A Novel Radiation-free Shoulder Joint Stiffness Evaluation Protocol using Non-invasive Ultrasonographic Images," *2011 IEEE International Conference on Systems, Man, and Cybernetics (**SMC'11**),* Anchorage, Alaska, USA, Oct. 9-12, 2011.

19. **Wen-Yen Lin**, and Cheng-Rong Tsai, "A Highly-Parallelized and Low-Complexity Complex QR-Decomposition Architecture for MIMO Detection Systems," *3rd International High Speed Intelligent Communication Forum (**HSIC 2011**),* Hong Kong, May 30-31, 2011.

20. Memory Latency: to Tolerate or to Reduce Amol Bakshi, Jean-Luc Gaudiot, Wen-Yen Lin, Manil Makhija, Viktor K. Prasanna, Wonwoo Ro, and Chulho Shin Invited paper at the Simposio Brasileiro de Arquitetura de Computadores e Processamento de Alto Desempenho (Proceedings of the 12th Symposium on Computer Architecture and High Performance Computing), SBAC-PAD'00, ?Sao Pedro, Brazil, October 24-27, 2000

21. I-Structure Software Cache, an approach to exploit data locality in cluster computing Alfredo Cristobal, Andrei Tchernykh, Jean-Luc Gaudiot, and Wen-Yen Lin
Proceedings of the 2000 International Workshop on Cluster Computing - Technologies, Environments, and Applications (CC-TEA '2000), held in conjunction with PDPTA-2000, Monte Carlo Resort, Las Vegas, Nevada, USA, June 26-29, 2000

22. Caching Single-Assignment Structures to Build a Robust Fine-Grain Multi-Threading System Wen-Yen Lin, Jose Nelson Amaral, Jean-Luc Gaudiot, and Guang R. Gao Proceedings of the 14th International Parallel and Distributed Processing Symposium (IPDPS '00), pp. 589-594, Cancun, Mexico, May 1-5, 2000 (EI)

23. Performance Analysis of the I-Structure Software Cache on Multi-Threading Systems Wen-Yen Lin, Jean-Luc Gaudiot, Jose Nelson Amaral, and Guang R. Gao Proceedings of the 19th IEEE International Performance, Computing, and Communication Conference (IPCCC '00), pp. 83-89, Phoenix, Arizona, February 20-22, 2000 (EI)

24. The Design of an I-Structure Software Cache System Wen-Yen Lin and Jean-Luc Gaudiot Proceedings of the 1998 Workshop on Multithreaded Execution, Architecture and Compilation (MTEAC 98), Las Vegas, Neveda, Jan. 31 - Feb. 1, 1998

25. Exloiting Global Data Locality in Non-Blocking Multithreaded Architectures Wen-Yen Lin and Jean-Luc Gaudiot Proceedings of the 3rd International Symposium on Parallel Architecture, Algorithms, and Networks (I-SPAN '97), pp. 78-84, Taipei, Taiwan, December 18-20, 1997

26. I-Structure Software Cache - A Split-Phase Transaction Runtime Cache System
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