

陳思文 副教授

所有發表期刊論文

1. J. M. Yang*, S.-W. Chen*, J.-H. Yang, C.-C. Hsu, J.-S. Wang, "A quantitative cell modeling and wound-healing analysis based on the Electric Cell-substrate Impedance Sensing (ECIS) method," *Computers in Biology and Medicine*, 69, pp. 134-143, Jan 2016. (SCI, 49/85, BIOLOGY).
2. S.-W. Chen*, Y.-H. Chen, "Hardware design and implementation of a wavelet de-noising procedure for medical signal preprocessing," *Sensors*, 15, pp. 26396-26414. Oct 2015. (SCI, Ranking: 10/56, INSTRUMENTS & INSTRUMENTATION).
3. S.-W. Chen*, J.-W. Liaw*, Y.-J. Chang, H.-L. Chan, L.-Y. Chiu, "A cycling movement based system for real-time muscle fatigue and cardiac stress monitoring and analysis," *PLoS One*, 10(6): e0130798 (17 pages), Jun 2015. (SCI, 8/56, MULTIDISCIPLINARY SCIENCES).
4. S.-W. Chen*, J.-W. Liaw, Y.-J. Chang, L.-L. Chuang, C.-T. Chien, "Combined heart rate variability and dynamic measures for quantitatively characterizing the cardiac stress status during cycling exercise," *Computers in Biology and Medicine*, 63, pp. 133-142, Jun 2015. (SCI, 49/85, BIOLOGY).
5. S.-W. Chen*, S.-C. Chao, "A reweighted l1-minimization based compressed sensing for the spectral estimation of heart rate variability using the unevenly sampled data," *PLoS One*, 9(6): e99098 (12 pages), Jun 2014. (SCI, Ranking: 8/56, MULTIDISCIPLINARY SCIENCES).
6. S.-W. Chen, J.-W. Liaw*, H.-L. Chan, Y.-J. Chang, C.-H. Ku, "A realtime fatigue monitoring and analysis system for lower extremity muscles with cycling movement," *Sensors*, 14, pp. 12410-12424, Jul 2014. (SCI, Ranking: 10/56, INSTRUMENTS & INSTRUMENTATION).
7. S.-W. Chen* and S.-C. Chao, "Compressed sensing technology based spectral estimation of heart rate variability using the integral pulse frequency modulation model," *IEEE Journal of Biomedical and Health Informatics (title changed from IEEE Transactions on Information technology in Biomedicine)*, vol. 18, no. 3, pp.

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8. S.-W. Chen*, and Y.-C. Lai, "A signal-processing-based technique for P300 evoked potential detection with the applications into automated character recognition," *EURASIP Journal on Advances in Signal Processing*, 2014:152 (10 pages), Oct 2014. (SCI, Ranking: 164/247, ENGINEERING, ELECTRICAL & ELECTRONIC).
 9. S.-W. Chen, J.-M. Yang*, J.-H. Yang, S. J. Yang, and J.-S. Wang, "A computational modeling and analysis in cell biological dynamics using Electric Cell-substrate Impedance Sensing (ECIS)," *Biosensors and Bioelectronics*, vol. 33, pp. 196–203, Mar 2012. (SCI, Ranking: 1/27, ELECTROCHEMISTRY).
 10. S.-W. Chen* and C.-Y. Chu, "A comparison of 3D cone-beam Computed Tomography (CT) image reconstruction performance on homogeneous multi-core processor and on other processors," *Measurement*, vol. 44, pp. 2035–2042, Aug 2011. (SCI, Ranking: 19/87, ENGINEERING, MULTIDISCIPLINARY). NSC 99-2221-E-182-020.
 11. H.-L. Chan*, Y.-C. Siao, S.-W. Chen, and S.-F. Yu, "**Wavelet-based ECG compression by bit-field preserving and running length encoding**," *Computer Methods and Programs in Biomedicine*, vol. 90, pp. 1-8, Apr 2008. (SCI, Ranking: 32/102, COMPUTER SCIENCE, THEORY & METHODS). NSC 95-2221-E-182-064.
 12. S.-W. Chen*, "A nonlinear trimmed moving averaging-based system with its application to real-time QRS beat classification," *Journal of Medical Engineering and Technology*, vol. 31, no. 6, pp. 443-449, Nov/Dec 2007. (EI). NSC 92-2220-E-182-003.
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 14. S.-W. Chen*, "Complexity measure based sequential hypothesis testing for real-time detection of lethal cardiac arrhythmias," *EURASIP Journal on Advances in Signal Processing*, vol. 2007, article ID 20957 (8 pages), 2007. (SCI, Ranking: 164/247, ENGINEERING, ELECTRICAL & ELECTRONIC). NSC 92-2220-E-182-003.

15. S.-W. Chen*, H.-C. Chen and H.-L. Chan, "A real-time QRS detection method based on moving-averaging incorporating with wavelet denoising," *Computer Methods and Programs in Biomedicine*, vol. 82, pp. 187-195, Jun 2006. (SCI, Ranking: 32/102, COMPUTER SCIENCE, THEORY & METHODS). NSC 95-2221-E-182-064.
16. H.-L. Chan*, W.-S. Chou, S.-W. Chen, S.-C. Fang, C.-S. Liou and Y.-S. Hwang, "Continuous and online analysis of heart rate variability," *Journal of Medical Engineering and Technology*, vol. 29, no. 5, pp. 227-234, Sep/Oct 2005. (EI). NSC 91-2218-E-182-002.
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