

A. Journal Papers

- ◆ C.Y. Yang and W.F. Wang, "Hiding secrets in electrocardiogram based on integer wavelet transform with coefficient adjustment and LSB substitution," *Network and Communication Technologies* 7, No. 1, DOI:10.5539/nct.v7n1p27 (2022).
- ◆ C.Y. Yang and C.K. Huang, "Nearly reversible ECG steganography based on polar coordinate system with digital replacement," *Transactions on Machine Learning and Artificial Intelligence* 9, No. 6, DOI: 10.14738/tmlai.96.11177 (2021).
- ◆ C.Y. Yang and W.F. Wang, "An efficient data hiding for ECG signals based on the integer wavelet transform and block standard deviation," *Journal of King Saud University - Computer and Information Sciences*, Available online 27 August 2021. (Rank=15/221, General Computer Science, 2-year IF=10.71, SCI).
- ◆ C.Y. Yang, L.T. Cheng, and W.F. Wang, "An efficient reversible ECG steganography by adaptive LSB approach based on 1D FDCT domain," *Multimedia Tools and Applications* 79, No. 33, 24449-24462 (2020). (Rank=14/70, Media Technology, 2-year IF=2.31, SCI).
- ◆ C.Y. Yang and W.F. Wang, "Progressive data hiding in integer wavelet transform of electrocardiogram by using simple decision rule and coefficient calibration," *Revue d'Intelligence Artificielle* 34, No. 1, 11-20 (2020). (EI)
- ◆ C.Y. Yang, C.M. Lai, H.C. Lin, T.Y. Lin and R.L. Lu, "Adaptive electrocardiogram steganography based on 2D approach with predetermined rules," *Asian Journal of Computer and Information Systems* 8, No. 1 (2020). (ISSN: 2321-5658)
- ◆ 楊慶裕、郭家祥、吳信德，資安日誌管理暨惡意程式分析平台系統建置－以學校系所為例 (Building a platform system for information security log management and malware analysis-an example at the school departments)，資訊安全通訊，第 25 卷，第 4 期，17-28，2019 年 11 月。
- ◆ C.Y. Hsiao, M.F. Tsai, and C.Y. Yang, "Simple and robust watermarking scheme based on square-root-modulus technique," *Multimedia Tools and Applications*, 77, No. 23, 30419-30435 (2018). (SCI)
- ◆ W.F. Wang, W.C. Lien, C.Y. Liu, and C.Y. Yang, "Study on tripping risks in fast walking through cadence controlled gait analysis," *Journal of Healthcare Engineering* 2018, Article ID 2723178, 11 pages (2018). (Rank=126/225, Biomedical Engineering, IF=2.29, SCI)

- ◆ W.F. Wang, C.Y. Yang, and Y.F. Wu, “SVM-based classification method to identify alcohol consumption using ECG and PPG monitoring,” *Personal and Ubiquitous Computing* **22**, No. 2, 275-287 (2018). (Rank=144/636, Computer Science Applications, IF=3.21, SCI)
- ◆ C.Y. Yang, “Robust high-capacity watermarking scheme based on Euclidean norms and quick coefficient alignment,” *Multimedia Tools and Applications* **76**, No. 1, 1455–1477 (2017). (SCI)
- ◆ C.Y. Yang and K.T. Lin, “Hiding data in electrocardiogram based on IWT domain via simple coefficient adjustment,” *Asian Journal of Computer and Information Systems* **4**, No. 3, 69-76 (2016). (ISSN: 2321–5658)
- ◆ C.Y. Yang and W.F. Wang, “Effective electrocardiogram steganography based on coefficient alignment,” *Journal of Medical Systems* **40**, No. 3, DOI: 10.1007/s10916-015-0426-9 (2016). (Rank=5/33, Health Information Management, 3-year IF=4.39, SCI)
- ◆ W.C. Hu, W.H. Chen, D.Y. Huang, and C.Y. Yang, “Effective image forgery detection of tampered foreground or background image based on image watermarking and alpha mattes,” *Multimedia Tools and Applications* **75**, No. 6, 3495–3516 (2016). (SCI)
- ◆ C.Y. Yang and W.F. Wang, “Reversible color image steganographic scheme based on shape-specific point,” *Journal of Information, Technology and Society* **15**, 61-77, 2015.
- ◆ C.Y. Yang and W.F. Wang, “High-capacity steganographic method for color images using progressive pixel-alignment,” *Journal of Information Hiding and Multimedia Signal Processing* **6**, No. 4, 815-823 (2015). (EI)
- ◆ C.Y. Yang, W.F. Wang, Y.F. Wang, and R.Z. Wang, “A simple watermarking scheme with high perceptual quality for still color images based on RWM and centroid,” *Journal of Information Hiding and Multimedia Signal Processing* **6**, No. 3, 577-590 (2015). (EI)
- ◆ W.F. Wang, C.Y. Yang, and S.J. Shih, “Study on a computational model of food intake for a body weight management system,” *Journal of Information Hiding and Multimedia Signal Processing* **6**, No. 3, 511-522 (2015). (EI)
- ◆ C.Y. Yang, W.F. Wang, Y.F. Wang, and R.Z. Wang, “An improved robust watermarking scheme based on a shape-specific point and feature-embedding technique,” *The Imaging Science Journal* **63**, No. 4, 183-191 (2015). (SCI)

B. Conference Papers

- ◆ 楊慶裕、王文楓，Block-oriented ECG steganography in integer wavelet domain by offset coefficient and LSB technique，第12屆網

路智能與應用研討會，國立雲林科技大學，民國 111 年 7 月 22-23。(獲得**最佳論文獎**)

- ◆廖健承、張瑋倫、楊慶裕、王文楓，基於步態分析進行神經性跛行慢性患者之病理步態比較，第 12 屆網路智能與應用研討會，國立雲林科技大學，民國 111 年 7 月 22-23。
- ◆葉祐龍、張瑋倫、楊慶裕、王文楓，基於步態分析之腰椎管狹窄症急性病人與正常人的步態差異比較研究，第 12 屆網路智能與應用研討會，國立雲林科技大學，民國 111 年 7 月 22-23。
- ◆曾俊宏、李文俊、陳大發、楊慶裕，基使用集成學習於 IoT 模擬網路環境中偵測與防禦 DDoS 攻擊之研究，第 20 屆離島資訊技術與應用研討會，818-822，國立澎湖科技大學，民國 111 年 5 月 27-29。
- ◆楊慶裕、吳東廷、葉錦霖，使用係數調整技巧於 GIF 動畫圖的隱寫術之研究，第 20 屆離島資訊技術與應用研討會，1533-1537，國立澎湖科技大學，民國 111 年 5 月 27-29。
- ◆楊慶裕、黃祈凱，區塊導向式合併使用係數調整法與 LSB 技巧及標準差的 ECG 隱寫術，第 20 屆離島資訊技術與應用研討會，1538-1543，國立澎湖科技大學，民國 111 年 5 月 27-29。
- ◆楊慶裕、劉彥瑋、李俊毅，基於係數調整法及 LSB 技巧的高隱藏容量二維 ECG 隱寫術，第 19 屆離島資訊技術與應用研討會，國立金門大學，民國 110 年 5 月 28-29。
- ◆C.Y. Yang, W.F. Wang, and C.M. Lai, "Adaptive data-hiding in electrocardiogram based on integer wavelet transform domain and incremental approach," *2020 9th International Conference on Industrial Technology and Management (ICITM 2020)*, Feb. 11-13, London, UK (2020).
- ◆L.T. Cheng and C.Y. Yang, "High-performance reversible electrocardiogram steganography based on fast discrete cosine transform with coefficients offset," *2019 Global Conference on Engineering and Applied Science (GCEAS 2019)*, July 16-18, Sapporo, Japan (2019).
- ◆M. Christian, C.Y. Yang, Y.Z. Xie, and Chang-Yi Yang, "Hiding secret message in electrocardiogram based on discrete cosine transform," *International Conference on Innovative Computing and Management Science 2019 (ICMS 2019)*, July 19-22, Osaka, Japan (2019).
- ◆郭家祥、陳書翰、吳冠賢、陳世華、陳育廷、吳信德、楊慶裕，ELK 日誌管理暨惡意程式分析平臺系統建置-以澎科大資工系為例，第 18 屆離島資訊技術與應用研討會，國立中興大學，民國 108 年 5 月 24-26。

- ◆莊俊華、楊慶裕、謝宜哲，以離散餘弦轉換為基礎之心電圖資料隱藏的技巧，第18屆離島資訊技術與應用研討會，國立中興大學，民國108年5/24-5/26。
- ◆T. Chang, T.H. Chung, E.W. Lin, J.J. Lai, X.H. Lai, W.F. Wang, C.Y. Chang, and C.Y. Yang, "Indoor navigation based on a gait recognition and counting scheme," 2018 *International Computer Symposium (ICS-2018)*, Dec. 20-22, YunLin, Taiwan (2018).
- ◆C.Y. Yang and W.F. Wang, "An improved high-capacity ECG steganography with smart offset coefficients," *The 14th Int. Conf. on Intelligent Information Hiding and Multimedia Signal Processing (IIH-MSP-2018)*, Nov. 26-28, Sendai, Japan (2018). (Also appeared in *Proceeding of the Fourteenth International Conference on Intelligent Information Hiding and Multimedia Signal Processing*, pp. 3-10, Vol. 2)
- ◆W.F. Wang, Y.P. Huang, C.Y. Chang, and C.Y. Yang, "Micro physiological vibration detection for human heartbeats," *The 14th Int. Conf. on Intelligent Information Hiding and Multimedia Signal Processing (IIH-MSP-2018)*, Nov. 26-28, Sendai, Japan (2018). (Also appeared in *Proceeding of the Fourteenth International Conference on Intelligent Information Hiding and Multimedia Signal Processing*, pp. 345-353, Vol. 2)
- ◆C.Y. Yang, L.T. Cheng, and W.F. Wang "Effective reversible data hiding in electrocardiogram based on fast discrete cosine transform," *Future Technologies Conference (FTC-2018)*, Nov. 13-14, Vancouver, Canada (2018). (Also appeared in *Proceedings of the Future Technologies Conference (FTC) 2018*, pp. 640-648, Vol. 1)
- ◆L.T. Cheng and C.Y. Yang, "High performance electrocardiogram steganography based on fast discrete cosine transform," *ICCSDML-2018: Int. Conf. on Computer Science and Distributed Machine Learning*, July 12-13, Stockholm, Sweden (2018).
- ◆鄭兩達、楊慶裕、王文楓，一維快速離散餘弦轉換為基礎之高隱藏容量之心電圖隱寫術，第17屆離島資訊技術與應用研討會，國立澎湖大學，民國107年5月25-27。
- ◆C.Y. Yang and W.F. Wang, "High-capacity ECG steganography with smart offset coefficients," *The 13th Int. Conf. on Intelligent Information Hiding and Multimedia Signal Processing (IIH-MSP-2017)*, Aug. 12-15, Matsue, Japan (2017).
- ◆G.J. Chou, R.Z. Wang, Y.K. Lee, and C.Y. Yang, "A novel visible watermarking scheme based on distance transform," *The 13th Int. Conf. on Intelligent Information Hiding and Multimedia Signal Processing (IIH-MSP-2017)*, Aug. 12-15, Matsue, Japan (2017).

- ◆陳信誠、楊慶裕、邱顯棟，以離散餘弦轉換為基礎之心電圖隱寫術的研究，第 16 屆離島資訊技術與應用研討會，國立金門大學，民國 106 年 5 月 19-21。
- ◆C.Y. Hsiao, M.F. Tsai and C.Y. Yang, "High-capacity robust watermarking approach for protecting ownership right," *The 12th Int. Conf. on Intelligent Information Hiding and Multimedia Signal Processing (IIH-MSP-2016)*, Nov. 21-23, Kaohsiung, Taiwan (2016). (**Excellence Paper Award of IIH-MSP 2016**)
- ◆C.Y. Yang and W.F. Wang, "A simple electrocardiography stegenography by offset coefficient approach," *The 9th IET Int. Conf. on U-Media Computing*, Aug. 15-17, Moscow, Russia (2016).
- ◆楊慶裕、邱顯棟、陳威智，Zigbee 應用於澎湖示範智慧家庭之測試與分析及評估，第 15 屆離島資訊技術與應用研討會，樹德科技大學，民國 105 年 5 月 20-21。
- ◆ C.Y. Yang and K.T. Lin, "Hiding data in electrocardiogram based on IWT domain via simple coefficient adjustment," *The 4th Int. Conf. on Annual Conference on Engineering and Information Technology*, March 29-31, Kyoto, Japan (2016). (Also published in *Asian Journal of Comp. and Info. Sys.* (ISSN: 2321-5658), Vol. 4, No. 3, 2016)
- ◆ C.Y. Yang and W.F. Wang, "High-performance digital watermarking with L_2 -norm centroid for colour images," *The 11th Int. Conf. on Intelligent Information Hiding and Multimedia Signal Processing (IIH-MSP-2015)*, Sept. 23-25, 29-31, Adelaide, Australia (2015). (EI-Index)
- ◆W.F. Wang, H.X. Wang, and C.Y. Yang, "Study on the Relationship between Stair's Slope and Upward/Downward Gaits in Stairs," *The 11th Int. Conf. on Intelligent Information Hiding and Multimedia Signal Processing (IIH-MSP-2015)*, Sept. 23-25, 33-36, Adelaide, Australia (2015). (EI-Index)
- ◆C.Y. Yang and W.F. Wang, "Robust reversible colour image digital watermarking using offset coefficient technique," *The 9th Int. Conf. on Genetic and Evolutionary Computing (ICGEC-2015)*, August 26-28, 2015, Yangon, Myanmar (2015). (Also published in *Advances in Intelligent Systems and Computing*, 83-94, Springer)
- ◆W.F. Wang, C.Y. Yang and D.Y. Wang, "Analysis of movement effectiveness in badminton strokes with accelerometers," *The 9th Int. Conf. on Genetic and Evolutionary Computing (ICGEC-2015)*, August 26-28, 2015, Yangon, Myanmar (2015). (Also published in *Advances in Intelligent Systems and Computing*, 95-104, Springer)
- ◆楊慶裕、王文楓，以區塊半徑加權均值為基礎之高畫質資料隱寫技巧，

第 14 屆離島資訊技術與應用研討會，國立澎湖科技大學，民國 104 年 5 月 22-23。

- ◆張鵬誼、王文楓、楊慶裕，應用於慢跑活動之運動節律控制法研究，第 14 屆離島資訊技術與應用研討會，國立澎湖科技大學，民國 104 年 5 月 22-23。