五、著作目錄:

- [1] Wen-Tsai Sung, Sung-Jung Hsiao*, "Smart Garbage Bin System Based on AIoT", Intelligent Automation & Soft Computing, (Accepted) Vol.XX, No.X, pp. 1-15, 2022.(SCIE/EI) IF: 1.647.Q3
- [2] <u>Wen-Tsai Sung</u>, Sung-Jung Hsiao*,, "Aquarium Monitoring System Based on Internet of Things", Intelligent Automation & Soft Computing,, (Accepted) Vol.XX, No.X, pp. 1-15, 2022.(SCIE/EI) IF: 1.647.Q3
- [3] Wen-Tsai Sung, Sung-Jung Hsiao*, "Home Monitoring of Pets Based on AloT", Computer Systems Science and Engineering, (Accepted) Vol.XX, No.X, pp. 1-15, 2021.(SCIE/EI) IF: 1.486.Q3
- [4] Wen-Tsai Sung, Sung-Jung Hsiao*, "Constructing a Deep Image Analysis System Based on Self-Driving and AIoT", Intelligent Automation & Soft Computing, Vol.31, No.2, 2022, Pages 1223-1240 (SCIE/EI) IF: 1.647.Q3
- [5] Wen-Tsai Sung, Sung-Jung Hsiao*, "Utilizing the Improved QPSO Algorithm to Build a WSN Monitoring System", CMC-Computers, Materials & Continua, Vol.70, No.2, pp. 3529-3548, 2022. (SCIE/EI) IF: 3.772.Q2
- [6] Wen-Tsai Sung, Sung-Jung Hsiao*, "RFID Positioning and Physiological Signals for Remote Medical Care", Computer Systems Science and Engineering, Vol.31, No.2, pp. 729-748, 2022.(SCIE/EI) IF: 1.486.Q3
- [7] <u>Wen-Tsai Sung</u>, Sung-Jung Hsiao*, "Building a Courtyard Environment Monitoring System Based on the Internet of Things Architecture", **Sensors and Materials**, Vol. 33, No. 8(4), pp. 2985-3009,2021. (**SCIE/EI**) **IF: 0.92.Q3**
- [8] Wen-Tsai Sung, Fathria Nurul Fadillah, Sung-Jung Hsiao*, "IoT-based Water Quality Monitoring", Sensors and Materials, Vol. 33, No. 8(4), pp. 2971-2983,2021. (SCIE/EI) IF: 0.92.Q3
- [9] Sung-Jung Hsiao, Wen-Tsai Sung*, "Using Mobile Technology to Construct a Network Medical Health Care System", Intelligent Automation & Soft Computing, Vol.31, No.2, 2022, Pages 729-748 (SCIE/EI) IF: 1.647.Q3
- [10] Wen-Tsai Sung Sung-Jung Hsiao*, "Employing a Fuzzy Approach for Monitoring Fish Pond Culture Environment", Intelligent Automation & Soft Computing, Vol.31, No.2, 2022, Pages 987-1006 (SCIE/EI) IF: 1.647.Q3
- [11] Wen-Tsai Sung, Sung-Jung Hsiao*, "Building an Indoor Air Quality Monitoring System Based on the Architecture of the Internet of Things", EURASIP Journal on Wireless Communications and Networking, Article number: 153 (2021), pp.1–41,13,July 2021. (SCIE/EI) IF: 1.73.Q2
- [12] Sung-Jung Hsiao, Wen-Tsai Sung*, "Employing Blockchain Technology to Strengthen Security of Wireless Sensor Networks", IEEE Access, Volume 9, pp. 72326 72341, May. 2021. (SCIE/EI) IF: 3.745.Q1
- [13] Shun-Yuan Wang, Yun-Jung Hsu, Sung-Jung Hsiao, <u>Wen-Tsai Sung*</u>, "A Sensor Network Web Platform Based on WoT Technology", Computer Systems Science and Engineering, Vol.38, No.2, pp. 197-214, 2021.(SCIE/EI) IF: 1.486.Q3
- [14] Sung-Jung Hsiao, Wen-Tsai Sung*, "Utilizing Blockchain Technology to Improve WSN Security for Sensor Data Transmission", CMC-Computers, Materials & Continua, Vol.68, No.2, pp. 1899-1918, 2021. (SCIE/EI) 3.772.Q2
- [15] Sung-Jung Hsiao, <u>Wen-Tsai Sung*</u>, "Realization of IoT Integration System of LED Based on Particle Swarm Optimization", Intelligent Automation & Soft Computing, Volume 27, No.2, Pages 499-517,2021. (SCIE/EI) IF: 1.647.Q3
- [16] Sung-Jung Hsiao, <u>Wen-Tsai Sung*</u>, "A Study on Using a Wireless Sensor Network to Design a Plant Monitoring System", Intelligent Automation & Soft Computing, Vol.27, No.2, Pages 359-377,2021. (SCIE/EI) IF: 1.647.Q3
- [17] Sung-Jung Hsiao, Wen-Tsai Sung*, "Building a Fish-Vegetable Coexistence System", IEEE Access, Volume 8, pp. 192119-192131, Oct. 2020. (SCIE/EI) IF: 3.745.Q1
- [18] <u>Wen-Tsai Sung*</u>, Sung-Jung Hsiao, "IoT Network Security and Applications via Long Range Technology", Sensors and Materials, Vol. 32, No. 1, pp.115–134,2020. (SCIE/EI) IF: 0.92.Q3
- [19] <u>Wen-Tsai Sung*</u>, Sung-Jung Hsiao, "The application of thermal comfort control based on Smart House System of IoT", Measurement, Elsevier Company. Volume 149, January 2020. (SCIE/EI) IF: 3.364.Q1
- [20] <u>Wen-Tsai Sung</u>, Sung-Jung Hsiao, and Jing-An Shih, "Construction of Indoor Thermal Comfort Environmental Monitoring System Based on the IoT Architecture", Journal of Sensors, Volume 2019.PP.1-16, 11 July 2019.(SCIE/EI) IF: 2.32.Q2
- [21] Wen-Tzeng Huang, Chao-Nan Hung, Sun-Yen Tan, Chiu-Ching Tuan, Chin-Hsing Chen, Wen-Tsai Sung* "Exquisite CCD camera design for an optical computed tomography scanner", Measurement, Elsevier Company. Volume 61, February 2015, Pages 192-205 (SCIE/EI) IF: 3.364.Q1
- [22] <u>Wen-Tsai Sung*</u>, Kuo-Yi Chang, "Health parameter monitoring via a novel wireless system", Applied Soft Computing, Elsevier Company., Volume 22, September 2014, Pages 667-680, (SCIE/EI) IF: 2.690
- [23] Wen-Tsai Sung*, Hung-Yuan Chung, "A distributed energy monitoring network system based on data fusion via improved PSO", Measurement, Elsevier Company. Volume 55, September 2014, Pages 362-374 (SCIE/EI) IF: 1.526.
- [24] Wen-Tsai Sung*, Hung-Yuan Chung, Kuo-Yi Chang, "Agricultural Monitoring System Based on Ant Colony Algorithm with Center Data Aggregation", IET Communications, Volume 8, Issue 7 2014, pp 1132 1140, (SCIE/EI) IF: 0.720.
- [25] Jui-Ho Chen, <u>Wen-Tsai Sung*</u>, and Hsi-Chun Wang, "Employing RFID for an Equipment Management System via Wireless Sensor Network", Mathematical Problems in Engineering. Volume 2014 (2014), Article ID 245839, 11 pages (SCIE/EI) IF: 1.082.
- [26] Kuang-Yow Lian, Sung-Jung Hsiao, <u>Wen-Tsai Sung*</u>, "Smart Home Safety Handwriting Pattern Recognition with Innovative Technology", Computers & Electrical Engineering, Elsevier Company. Volume 40, Issue 4, May 2014, Pages 1123–1142 (SCIE/EI) IF: 0.992.
- [27] Wen-Tsai Sung*, Jui-Ho Chen, Chrng-Li Hsiao "Data Fusion for PT100 Temperature Sensing System Heating Control Model", Measurement, Elsevier Company. Volume 52, June 2014, Pages 94–101 (SCIE/EI) IF: 1.526.
- [28] Kuang-Yow Lian, Sung-Jung Hsiao, <u>Wen-Tsai Sung*</u>, "Mobile Monitoring and Embedded Control System for Factory Environment", Sensors, 13, no. 12: 17379-413. (SCIE/EI) IF: 2.048.
- [29] Wen-Tsai Sung*, Jia-Syun Lin, "Design and Implementation of a Smart LED Lighting System Using a Self Adaptive Weighted Data Fusion Algorithm", Sensors, 13, no. 12: 16915-16939. (SCIE/EI) IF: 2.048.
- [30] <u>Wen-Tsai Sung*</u>, Sung-Jung Hsiao "Implementation of Enhanced Fractionally Spaced Algorithm for Blind Equalization Technology in WSNs", Ad Hoc Networks, **Elsevier Company**. --Volume 14, Issue 3,Pages 26–34 (**SCIE/EI**) **IF: 1.943**.

- [31] <u>Wen-Tsai Sung*</u>, Jui-Ho Chen, Kuo-Yi Chang "Trust Function for Multi-Physiological Signals Fusion", Measurement, Elsevier Company. Volume 47, Issue 1, Pages 827–840 (SCIE/EI) IF: 1.526.
- [32] Wen-Tsai Sung*, Kuo-Yi Chang, "Evidence-based Multi-Sensor Information Fusion for Remote Health Care Systems", Sensors and Actuators A: Physical, Elsevier Company., Volume 204, Issue 15 December 2013, Pages 1-19 (SCIE/EI) IF: 1 943
- [33] Wen-Tsai Sung*, Jui-Ho Chen, Kung-Wei Chang, "Mobile Physiological Measurement Platform with Cloud and Analysis Functions Implemented via IPSO", IEEE Sensors Journal, Volume:14, Issue: 1,pp 111 123, Jan. 2014 (SCIE/EI) IF: 1.852.
- [34] Wen-Tsai Sung*, Chia-Cheng Hsu, "Intelligent Environment Monitoring System Based on Innovative Integration Technology via PSoC Platform and ZigBee Network", IET Communications, Volume 7, Issue 16, 05 November 2013, pp 1789 1801, (SCIE/EI) IF: 0.720.
- [35] <u>Wen-Tsai Sung*</u>, Yu-Feng Liu, "Neural Network Approaches to Data Fusion Calculation and Correction in Wireless Sensor Network A Case Study Comparison between BPN, RBFN and GRNN", International Journal of Nonlinear Sciences and Numerical Simulation, Volume 14, Issue 6, Pages 395–411, September 2013 (SCIE/EI) IF: 0.62.
- [36] Wen-Tsai Sung*, Jui-Ho Chen, Kung-Wei Chang, "Study on a Real-Time BEAM System for Diagnosis Assistance based on System on Chips", Sensors, 2013, 13(5), 6552-6577 (SCIE/EI) IF: 2.048.
- [37] <u>Wen-Tsai Sung*</u>, "Wireless Sensing Network Transmission System with Improved Constant Modulus Algorithm", EURASIP Journal on Wireless Communications and Networking, 2013, 2013:101 (15 April 2013) (SCIE/EI) IF: 0.87.
- [38] Wen-Tsai Sung*, Chrng-Li Hsiao, "IHPG Algorithm for Efficient Information Fusion in Multi-Sensor Network via Smoothing Parameter Optimization", INFORMATICA, Volume 24, Issue 2, Pages 219-230 (SCIE/EI) IF: 1.627.
- [39] <u>Wen-Tsai Sung*</u>, Chia-Cheng Hsu, "IOT System Environmental Monitoring using IPSO Weight Factor Estimation", Sensors Review. Volume 33 issue 3 pp.246 256 (SCIE/EI) IF: 0.595.
- [40] Kuang-Yow Lian, Sung-Jung Hsiao, <u>Wen-Tsai Sung*</u> "Intelligent Multi-Sensor Control System Based on Innovative Technology Integration via ZigBee and Wi-Fi Network", Journal of Network and Computer Applications, **Elsevier Company**. Volume 36, Issue 2, March 2013, Pages 756–767. (SCIE/EI) IF: 1.467.
- [41] Wen-Tsai Sung*, Jui-Ho Chen, Kuo-Yi Chang, "ZigBee based multi-purpose electronic score design and implementation using EOG", Sensors and Actuators A: Physical, Elsevier Company. Volume 190, Issue 1, February 2013, Pages 141–152 (SCIE/EI) IF: 1.943.
- [42] Wen-Tsai Sung*, Ming-Han Tsai, "Data Fusion of Multi-Sensor for IOT Precise Measurement Based on Improved PSO Algorithms", Computers and Mathematics with Applications, Elsevier Company. Volume 64, Issue 5, September 2012, Pages 1450–1461 (SCIE/EI) IF: 2.069.
- [43] Ing-Jiunn Su, Chia-Chih Tsai, <u>Wen-Tsai Sung*</u> "Area temperature system monitoring and computing based on adaptive fuzzy logic in wireless sensor networks", Applied Soft Computing, **Elsevier Company**., Volume 12, Issue 5. pp. 1532–1541.May. 2012, (SCIE/EI) IF: 2.140
- [44] <u>Wen-Tsai Sung*</u>, Yen-Chun Chiang "Improved Particle Swarm Optimization Algorithm for Android Medical Care IOT using Modified Parameters", Journal of Medical Systems, Springer Company. Vol.36 Number 6,pp.3755-3763.. 2012, (SCIE/EI) IF: 1.783.
- [45] Wen-Tsai Sung*, Hung-Yuan Chung "Employing Reduced Order Approach for Computing Protein Folding via Langevin Equation and Lyapunov Theorem", *International Journal of Innovative Computing, Information and Control*, Vol.8, No.6, pp.4319-4332. June.2012, (SCIE/EI) IF: 1.664,
- [46] <u>Wen-Tsai Sung</u>*, Guan-Yu Chen "Employ DaVinci DM6446 Platform for H.264 Video Processing Analysis and Case Discussion", *International Journal of Innovative Computing, Information and Control*, Vol.8, No.3(A), pp. 1849-1866. Mar.2012, (SCIE/EI) IF: 1.664,
- [47] <u>Wen-Tsai Sung*</u>, Shih-Ching Ou ,Yu-Feng Liu, Chia-Hao Chen "Employed VeriLite Simulation to Improve SOC Design and Verification ", Computer Applications in Engineering Education, John Wiley & Sons, Inc. Volume 20, Issue 2, pages 374–382, June 2012 (SCIE/EI) IF: 0.333, (NSC 97-2622-E-167-014-CC3)
- [48] <u>Wen-Tsai Sung*</u>, Jui-Ho Chen,"Enhancing Molecular Docking Efficiency for Computer-Aided Drug Design via Systems Theorem" International Journal of Computing, Consumer and Control (IJ3C)Vol. 1,no.1,pp.54-61, Jan. 10,2012,
- [49] Wen-Tsai Sung*, "Protein folding for finding active sites by the VMD tool and force field simulation ", Computer Applications in Engineering Education, John Wiley & Sons, Inc. Volume 19, Issue 4, pages 717–723, December 2011 (SCIE/EI) IF: 0.333,
- [50] Wen-Tsai Sung*, Ming-Han Tsai, "Multi-Sensor Wireless Signal Aggregation for Environmental Monitoring System via Multi-bit Data Fusion", Applied Mathematics & Information Sciences, Vol.5, No.3,pp. 589–603.Sep. 2011, (SCIE/EI) IF: 0.731
- [51] <u>Wen-Tsai Sung*</u>, Jui-Ho Chen, Hsi-Chun Wang "Optimization Data Fusion Approaches for Intelligent House System", Applied Mathematics & Information Sciences, Vol.6, No.7S ,pp. NO.14.. 2012, (SCIE/EI) IF: 0.731
- [52] Wen-Tsai Sung*, Jui-Ho Chen, Kung-Wei Chang, Yen-Chun Chiang "Development and Research of Wireless Multiple Lead Electrocardiogram and Electroencephalogram System", Advanced Science Letters, Volume 9 (30 April 2012). 162-167,
- [53] Kuang-Yow Lian, Sung-Jung Hsiao*, <u>Wen-Tsai Sung</u> "Employ Cloud Computing to Solve the Problem of Capacity in Pattern Recognition", Applied Mathematics & Information Sciences, in press. Jul. 2011, (SCIE/EI) IF: 0.731
- [54] Ing-Jiunn Su, Chia-Chih Tsai, <u>Wen-Tsai Sung</u>* "Event Detection for Factory Monitoring based on Genetic Algorithm and RBF", Advanced Science Letters, Volume 9 (30 April 2012). 284-288,
- [55] Ing-Jiunn Su, Chia-Chih Tsai, <u>Wen-Tsai Sung*</u> "Fuzzy Logic Method for Node Temperature Calculating in Wireless Multi-Sensor System", ICIC Express Letters, Part B: Applications, An International Journal of Research and Surveys, Volume 2, Issue 4. Pp.953~958.Aug. 2011, (EI)
- [56] Wen-Tsai Sung*, Jui-Ho Chen, Yen-Chun Chiang "ECG Application to Remote Care System via Web-Based and Graphics Interface", Advanced Materials Research, Vol. 217-218, No.1, pp.1330-1335. March. 2011, (EI)

- [57] Ing-Jiunn Su, Chia-Chih Tsai, Wen-Tsai Sung* "Comparison of BP and GRNN Algorithm for Factory Monitoring", Applied Mechanics and Materials, Vol.52-54, No.1, pp.2105-2110. March. 2011, (EI)
- [58] <u>Wen-Tsai Sung*</u>, Hung-Yuan Chung, Yao-Chi Hsu, Kuan-Yu Chen, "A Light Wind Speed Measurement System Design to Strengthen Wireless Sensor Network Functions", International Journal of Innovative Computing, Information and Control, Vol.7, No.2, pp.859-868. Feb.. 2011, (SCIE/EI) IF: 1.664,
- [59] Wen-Tsai Sung*, Yao-Chi Hsu, "Designing an Industrial Real-time Measurement and Monitoring System Based on Embedded System and ZigBee", Expert Systems with Applications, Elsevier Company. Vol. 38, Issue 4, pp. 4522-4529. April 2011 (SCI/EI) IF: 1.854,
- [60] Meng-Hui Wang, Yu-Kuo Chung, <u>Wen-Tsai Sung</u>, "Using thermal image matter-element to design a circuit board fault diagnosis system ", Expert Systems with Applications, Elsevier Company. Vol. 38, Issue 5, pp. 6164-6169. May 2011 (SCI/EI) IF: 1.854,
- [61] Wen-Tsai Sung, Kuan-Yu Chen, Yao-Chi Hsu, "Design a Breeze Sensor System Based on Electric Field via Two-Elemental Direction", Expert Systems with Applications, Elsevier Company. Vol. 38, Issue 5, pp. 5584-5590. May 2011 (SCI/EI) IF: 1.854,
- [62] Wen-Tsai Sung, Jui-Ho Chen, Meng-Hui Wang, Yao-Chi Hsu "Remote Medical Care System Design Based on RFID and Zigbee Technology via Wireless Sensors Network", International Journal of Innovative Computing, Information and Control, Vol.6, No.11, pp.5203-5220. November. 2010, (SCIE/EI) IF: 2.932, (NSC 98-2220-E-167-001, NSC 98-2622-E-167-001-CC3)
- [63] <u>Wen-Tsai Sung*</u>, Chia-Hao Chen "Parallel Data Fusion for an Industrial Automatic Monitoring System using Radial Basis Function Networks", International Journal of Innovative Computing, Information and Control, Vol.6, No.6, pp.2523-2536. June. 2010, (SCIE/EI) IF: 2.932, (NSC 97-2218-E-167-001, 98E-70-71 and 98E-70-73)
- [64] <u>Wen-Tsai Sung*</u>, Ding-Chi Wang "An Innovative MPCM Network Data Transmission Efficiency Enhancement", International Journal of Innovative Computing, Information and Control, Vol.6, No.5, pp.2075-2088. May.2010, (SCIE/EI) IF: 2.932, (NSC 97-2622-E-167-014-CC3)
- [65] <u>Wen-Tsai Sung*</u>, "Determine Global Energy Minimum Solution via Lyapunov Stability Theorem", International Journal of Innovative Computing, Information and Control, Vol.5, No.7, pp.2011~2030.July 2009(SCIE/EI) IF: 2.932,
- [66] Wen-Tsai Sung*, "Multi-Sensors Data Fusion System for Wireless Sensors Networks of Factory Monitoring via BPN Technology", Expert Systems with Applications, Elsevier Company. Vol. 37, Issue 3, pp. 2124-2131. March 2010 (SCI/EI) IF: 2.908, (NSC 97-2218-E-167-001, 97E-70-243 and 97E-70-244)
- [67] Meng-Hui Wang*, Kuei-Hsiang Chao, <u>Wen-Tsai Sung</u>, Guan-Jie Huang, "Using ENN-1 for Fault Recognition of Automotive Engine", Expert Systems with Applications, **Elsevier Company**. Vol. 37, Issue 4, pp. 2943-2947. April 2010 (SCI/EI) IF: 2.908,
- [68] Wen-Tsai Sung*, Yu-Feng Liu,"Energy Minimum Theorem Based on AGA, Lyapunov and Force Field for CADD Techniques", Computers in Biology and Medicine, Elsevier Company. Vol. 40, Issue 2, pp. 215-222. February 2010 (SCI/EI) IF: 1.269, (NSC 98-2221-E-426-007)
- [69] Wen-Tsai Sung*, Hung-Yuan Chung "Innovate Visualization Interactive Tools for Learning Molecular Simulation Curriculum", Computer Applications in Engineering Education, John Wiley & Sons, Inc. Published Online: Jan 13 2009. Vol. 18, Issue 1, pp. 28-40. March 2010. (SCIE/EI) IF: 0.203,
- [70] Wen-Tsai Sung*, "Intuitive GA and Lyapunov to Promote Molecular Docking Efficiency for Drug Design", Journal of Medical and Biological Engineering, Vol. 29, Issue 1, pp. 39-45. February, 2009 (SCIE/EI) IF: 0.42 (2009, JMBE Journal the best paper award)