

楊朝龍

著作目錄

期刊論文

1. Thi Phuong Quyen Nguyen, Phan Nguyen Ky Phuc, Chao-Lung Yang, Hendri Sutrisno, Bao-Han Luong, Thi Huynh Anh Le, Thanh Tung Nguyen (2023, Mar). Time-Series Anomaly Detection Using Dynamic Programming Based Longest Common Subsequence on Sensor Data. *Expert Systems with Applications*, 231, Part A, 118902.
2. Chao-Lung Yang, Hendri Sutrisno (2023, Jan). A two-echelon location routing problem with mobile satellites for last-mile delivery: Mathematical formulation and clustering-based heuristic method. *Annals of Operations Research*. (Accepted). nstc 109-2221-E-011-101. 本人為第一作者.
3. Chao-Lung Yang, Shang-Che Hsu, Yu-Wei Hsu, and Yu-Chung Kang (2023, Jan). HAR-Time: Human Action Recognition with Time Factor Analysis on Worker Operating Time. *International Journal of Computer Integrated Manufacturing*. (Accepted). 本人為第一作者、通訊作者.
4. Chao-Lung Yang, Hendrik Tampubolon, Aji Setyoko, Kai-Lung Hua, M. Tanveer, Wei Wei (2022, Nov). Secure and Privacy-Preserving Human Interaction Recognition of Pervasive Healthcare Monitoring. *IEEE Transactions on Network Science and Engineering (IEEE TNSE)*. (Accepted). MOST 110-2221-E-011-140. 本人為第一作者、通訊作者.
5. Yun-Ting Zhou, Jilyan Bianca Dy, Shang-Che Hsu, Yu-Ling Hsu, Chao-Lung Yang, Kai-Lung Hua (2022, Oct). SSRFace: A Face Recognition Framework Against Shallow Data. *Multimedia Tools and Applications*. (Accepted).
6. Chao-Lung Yang, Yulius Harjoseputro, Yu-Chen Hu and Yung-Yao Chen (2022, Jun). An Improved Transfer-Learning for Image-Based Species Classification of Protected Indonesians Birds. *CMC-Computers Materials & Continua*, 73(3), pp. 4577-4593. MOST 110-2221-E-011-140. 本人為第一作者.
7. V. F. Yu, A. Bahauddin, C.-L. Yang, Y. J. Wu, and R. Ekawati (2022, Jun). A Combined Approach for Green Supply Chain Management Performance Measurement in a Steel Manufacturing Company: An Indonesian Case. *Journal of Sustainable Metallurgy*, 8, 1140-1153.
8. Chao-Lung Yang, Thi Phuong Quyen Nguyen (2022, Mar). Sequential Clustering and Classification Approach to Analyze Sales Performance of Retail Stores

Based on Point-of-Sale Data. *International Journal of Information Technology & Decision Making*, 21(3), 885-910. MOST 106-2221-E-011-106-MY3. 本人為第一作者、通訊作者。

9. Vincent F Yu, W. Winarno, A. Maulidin, A. A. N. Perwira Redi, Shih-Wei Lin *, Chao-Lung Yang (2021, Jul). Simulated annealing with restart strategy for the path cover problem with time windows. *Mathematics* .
10. Chao-Lung Yang, Hendri Sutrisno (2021, Mar). Reducing response delay in multivariate process monitoring by a stacked long short term memory network and real-time contrasts. *Computers and Industrial Engineering*, 153, 107052-1-10. MOST 106-2221-E-011-106-MY3. 本人為第一作者、通訊作者。
11. Chao-Lung Yang, Hendri Sutrisno, Arnold Samuel Chan, Hendrik Tampubolon, Budhi Sholeh Wibowo (2021, Mar). Identification and analysis of weather sensitive roads based on smartphone sensor data: a case study in Jakarta. *Sensors*, 21(7), 2405. MOST 106-2218-E-011-008-MY2. 本人為第一作者、通訊作者。
12. Chao-Lung Yang, Hendri Sutrisno (2020, Dec). A Clustering-Based Symbiotic Organisms Search Algorithm for High-Dimensional Optimization Problems. *Applied Soft Computing*, 97, Part B, 106722-1-16. (SCI). MOST 106-2221-E-011-106-MY3. 本人為第一作者、通訊作者。
13. Kwei-Long Huang, Chao-Lung Yang, and Che-Ming Kuo (2020, Dec). Plant Factory Crop Scheduling Considering Volume, Yield Changes and Multi-Period Harvests Using Lagrangian Relaxation . *Biosystems Engineering*, 200, 328-337. (SCI). MOST 103-2221-E-011-116. 本人為通訊作者。
14. Chao-Lung Yang, Chi-Hao Chien, Yen-Ping Lin, Chi-Hsun Chien (2020, Sep). Tone Curve Compensation of Multiple Color Halftoning Screen Printing for Heterogeneous Fabrics. *Journal of Imaging Science and Technology*, 64(5), 50406-1-50406-10(10). (SCI, 27/27 Imaging Science and Photographic Technology). MOST 108-2622-E-011-024-CC2. 本人為第一作者、通訊作者。
15. Chao-Lung Yang, Zhi-Xuan Chen and Chen-Yi Yang (2020, Jan). Sensor Classification using Convolutional Neural Network by Encoding Multivariate Time Series as Two-Dimensional Colored Images. *Sensors*, 20(1), 168-183. MOST 106-2221-E-011-106-MY3. 本人為第一作者、通訊作者。
16. Hendrik Tampubolon, Chao-Lung Yang, Arnold Samuel Chan, Hendri Sutrisno, Kai-Lung Hua (2019, Nov). Optimized CapsNet for Traffic-jammed Speed Prediction using Mobile Sensor Data under Urban Swarming Transportation. *Sensors*, 19(23), 5277-5295. (SCI, 15/61, Instruments, Instrumentation). MOST 106-2221-E-011-106-MY3. 本人為通訊作者。
17. Chao-Lung Yang, Sin-Jie Huang, Chit-Hui Ang (2019, Aug). Recursive Heuristic

- Scheduling Method for Multi-Crop Plant Factory with Solar Panel Roof. *Computers and Electronics in Agriculture*, 165, 104941. (SCI, 5/57, Agriculture, Multidisciplinary). MOST 102-2221-E-011-052. 本人為第一作者、通訊作者。
18. Chao-Lung Yang, Nguyen Thi Phuong Quyen (2018, Aug). Data Analysis Framework of Sequential Clustering and Classification Using Non-Dominated Sorting Genetic Algorithm. *Applied Soft Computing*, 69, 704-718. (SCI, 21/133). MOST 101-2221-E-011-057. 本人為第一作者、通訊作者。
19. 李維楨、鍾俊輝、劉孟昆、郭重顯、項天瑞、楊朝龍、羅乃維（2019年12月）。機械工廠內之異質機臺連網整合與應用。*科儀新知*，12。

專書

1. 蔡坤穆、戴志言、張家濟、柯秀佳、廖俊鑑、許中川、吳師豪、歐宗殷、李麒麟、黃文宏、林立千、郭幸民、陳君涵、蔣治平、楊文瑜、彭浩軒、黃國勝、楊朝龍、陳育仁、陳勤明、洪志興、李臻動、魏裕珍（2020年03月）。*智慧商務導論*（ISBN：9789865032722）。台北：全華圖書股份有限公司。

專書論文

1. Chao-Lung Yang, Yun-Chi Yang, Ting-An Chou, Hisao-Yen Wei, Cheng-Yuan Chen, and Chung-Hsien Kuo. Case Study: Taiwanese Government Policy, STEM Education, and Industrial Revolution 4.0. *STEM in the Technopolis: The Power of STEM Education in Regional Technology Policy* (ISBN: 978-3030398507). Springer Nature Switzerland AG: Springer. May, 2020: 149-170.

研討會論文

1. Chao-Lung Yang*, Yan-Ping Lin, and Shang-Che Hsu (2023, Aug). Hand Assemble Action Recognition Using Spatial Temporal Graph Convolutional Network. ASME 2023 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference (IDETC/CIE 2023), Boston, MA, USA, Aug. 20-23, 2023. nstc 111-2221-E-011-081. 本人為第一作者、通訊作者。
2. Chao-Lung Yang, Shao-Qing Wu, Syuan-Jen Chen, Tzu-Ching Kao, Chao-Hung Huang, En Liou, Po-Ting Lin, Kai-Lung Hua (2023, Aug). The Fusion and Verification of 2D Human Skeleton and 3D Point Cloud based on RealSense. 2023 International Conference on Advanced Robotics and Intelligent Systems (ARIS 2023), Taipei, Taiwan. nstc 112-2221-E-011-115. 本人為第一作者、通訊

作者.

3. Chao-Lung Yang, Yang-Hsiu Tung, Tzu-Ching Kao, Chao-Hung Huang, En Liou, Po-Ting Lin, Kai-Lung Hua (2023, Aug). Combination of Semantic Segmentation and Skeleton Estimation for Human Hands Detection. 2023 International Conference on Advanced Robotics and Intelligent Systems (ARIS 2023), Taipei, Taiwan. nstc 112-2221-E-011-115. 本人為第一作者、通訊作者.
4. Chao-Lung Yang, Shang-Che Hsu, Si-Hao Wang, and Jing-Feng Nian (2022, Jul). Automatic Labeling of Human Actions by Skeleton Clustering and Fuzzy Similarity. 13th International Conference on Applied Human Factors and Ergonomics (AHFE 2022) , New York, USA. MOST 110-2221-E-011-140. 本人為第一作者、通訊作者.
5. Chao-Lung Yang, Jin-Yu, Chen, and Chun-Fu. Chen (2021, Aug). Unsupervised Streaming Data Analysis for Solder Paste Inspection Process. The 9th International conference on Advanced Robotics and Intelligent Systems (ARIS 2021), Taipei, Taiwan, . MOST 109-2221-E-011-101. 本人為第一作者、通訊作者.
6. Chao-Lung Yang, Shang-Che Hsu, Yu-Wei Hsu, Yu-Chung Kang (2021, Jul). Human Action Recognition on Exceptional Movement of Worker Operation. 12th International Conference on Applied Human Factors and Ergonomics, New York, USA. MOST 109-2221-E-011-101. 本人為第一作者、通訊作者.
7. Chao-Lung Yang, Aji Setyoko, Hendrik Tampubolon, Kai-Lung Hua (2020, Oct). Pairwise adjacency matrix on spatial temporal graph convolution network for skeleton-based two-person interaction recognition. The 27th IEEE International Conference on Image Processing (ICIP 2020) , Abu Dhabi, UAE. 本人為第一作者、通訊作者.
8. PS. Jose Jaena Mari Ople, Daniel Tan, Arnulfo Azcarraga, Chao-Lung Yang, and Kai-Lung Hua (2020, Oct). Super-resolution by Image Enhancement using Texture Transfer. The 27th IEEE International Conference on Image Processing (ICIP 2020) .
9. Chao-Lung Yang, Wen-Ting Li, Shang-Che Hsu (2020, Aug). Skeleton-based Hand Gesture Recognition for Assembly Line Operation. The 8th International Conference on Advanced Robotics and Intelligent Systems (ARIS 2020), Taipei, Taiwan, . MOST 106-2221-E-011-106-MY3.
10. Chao-Lung Yang, Yi-Ming Wang, Yu-Yang Hsiao, Shang- Che Hsu (2019, Dec). Measuring importance of customer demographic feature for recommendation system using fisher discriminant ratio. The 20th Asia Pacific Industrial Engineering and Management Systems, Kanazawa, Japan. MOST 108-2218-E-011-026. 本人為第一作者、通訊作者.

11. Chao-Lung Yang, Hendri Sutrisno (2019, Nov). Dynamic Control Limit for Detecting Process Shift in Production. The 16th International Conference on Automation Technology (Automation 2019), Taipei, Taiwan. MOST 106-2221-E-011-106-MY3. 本人為第一作者、通訊作者.
12. Chao-Lung Yang, Chin-Hsuan Liang (2019, Aug). Data Analysis of Streaming Multivariate Time Series Data for Predictive Maintenance. ASME 2019 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference (IDETC/CIE 2019) IDETC2019-97856, Anaheim, CA, USA. MOST 106-2221-E-011-106-MY3. 本人為第一作者、通訊作者.
13. Chao-Lung Yang, Frederik Darwin, Hendri Sutrisno (2019, Aug). Local recurrence rates with automatic time windows for discord search in multivariate time series. 25th International Conference on Production Research (ICPR25), Chicago, Illinois (USA). MOST 106-2221-E-011-106-MY3. 本人為第一作者、通訊作者.
14. Chao-Lung Yang, Shang-Che Hsu, Kai-Lung Hua, Wen-Huang Cheng (2019, May). Fuzzy Personalized Scoring Model for Recommendation System. 2019 International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2019), Brighton, UK. MOST 107-2218-E-011-014. 本人為第一作者、通訊作者.
15. Chao-Lung Yang, Chen-Yi Yang, Zhi-Xuan Chen, Nai-Wei Lo (2019, Jan). Multivariate Time Series Data Transformation for Convolutional Neural Network. International Symposium on System Integrations (SII 2019), 法國. MOST 106-2221-E-011-106-MY3. 本人為第一作者、通訊作者.
16. Chao-Lung Yang, Hendri Sutrisno, Arnold Samuel Chan, Budhi Sholeh Wibowo (2018, Dec). The Two-Echelon Vehicle Routing Problem with Dynamic Satellites for City Logistics. The 48th International Conference on Computers and Industrial Engineering (CIE 48), 紐西蘭, 奧克蘭. MOST 107-2218-E-011-014. 本人為第一作者、通訊作者.
17. Chao-Lung Yang, Hendri Sutrisno, Na-Wei Lo, Zhi-Xuan Chen, Ching-Chih Wei, Han-Wei Zhang, Chin-Teng Lin, Chen-Lung Wei, Shang-Heng Hsieh (2018, May). Streaming Data Analysis Framework for Cyber-Physical System of Metal Machining Processes. 1st IEEE International Conference on Industrial CyberPhysical Systems (ICPS-2018), Saint Petersburg, Russia. MOST 106-2218-E-011-003. 本人為第一作者、通訊作者.
18. Chao-Lung Yang, Hendri Sutrisno (2018, Feb). Short-Term Sales Forecast of Perishable Goods for Franchise Business. 2018 10th International Conference on Knowledge and Smart Technology (KST), Chiang Mai Province, Thailand. MOST 105-2221-E-011-108. 本人為第一作者、通訊作者.



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Decision on Manuscript ID TCIM-2022-IJCIM-0028.R1**

29-Jan-2023

Dear Professor Yang:

Manuscript ID TCIM-2022-IJCIM-0028.R1 entitled "HAR-Time: Human Action Recognition with Time Factor Analysis on Worker Operating Time"

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2. The text spacing between the Figure captions and the text is too small. The Figure captions look like they are now part of the text.

2(a) For example the spacing between (weight(g)) and (Figure 9: Distribution of weight of product A and B is big(but the spacing between (Figure 9: Distribution of weight of product A and B) and the sentence starting with (After obtaining the quality index of each ingot, RF method was utilized to) is too small.

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weiwei@xaut.edu.cn

日期: Sat, 12 Nov 2022 11:57:00

標題: **Decision on TNSESI-2022-01-0205.R2: Accept as regular paper**

RE: TNSESI-2022-01-0205.R2, "Secure and Privacy-Preserving Human Interaction Recognition of Pervasive Healthcare Monitoring"
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Best wishes,

Jianwei Huang
Editor-in-Chief · IEEE Transactions on Network Science and Engineering
EiC4TNSE@gmail.com

Editor's Comments:

Associate Editor
Comments to the Author:
This paper can be accepted for the publication.

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Please note that some reviewers may have included additional comments in a separate file. If a review contains the note “see the attached file” under Section III A – Public Comments, you will need to log on to ScholarOne Manuscripts to view the file. After logging in, select the Author Center, click on the “Manuscripts with Decisions” queue and then clicking on the “view decision letter” link for this manuscript. You must scroll down to the very bottom of the letter to see the file(s), if any. This will open the file that the reviewer(s) or the Associate Editor included for you along with their review.

Reviewer: 2

Recommendation: Accept With No Changes

Comments:
This paper is very interesting and challenging. Moreover, this paper is well-organized and well-written. In my point of view, the paper deserves publication in the Journal.

Additional Questions:

1. Which category describes this manuscript?: Practice / Application / Case Study / Experience Report

How relevant is this manuscript to the readers? Explain under Public Comments: Relevant

1. Please explain how this manuscript advances this field of research and/or contributes something new to the literature.: As a researcher working in the same field, I emphasize that the work has been successfully constructed. The methodology followed by the researchers is appropriate for the purposes of the research they are conducting. Because the researchers based on the previous results mentioned in the introduction of the paper, I confirm that the research topic is appropriate for the objectives of the journal.

2. Is the manuscript technically sound? Please explain your answer under Public Comments below.: Yes

1. Are the title, abstract, and keywords appropriate? Please explain under Public Comments below.: Yes

2. Does the manuscript contain sufficient and appropriate references? Please explain under Public Comments below.: References are sufficient and appropriate

3. Does the introduction state the objectives of the manuscript in terms that encourage the reader to read on? Please explain your answer under Public Comments below.: Yes

4. How would you rate the organization of the manuscript? Is it focused? Is the length appropriate for the topic? Please explain under Public Comments below.: Satisfactory

5. Please rate the readability of the manuscript. Explain your rating under Public Comments below.: Readable - but requires some effort to understand

6. Should the supplemental material be included? (Click on the Supplementary Files icon to view files): Does not apply, no supplementary files included

7. If yes to 6, should it be accepted:

Please rate the manuscript. Explain your choice.: Excellent

Reviewer: 1

Recommendation: Accept With No Changes

Comments:

I have no further comments. The authors have responded to my comments. Thank you for revising the paper.

Additional Questions:

1. Which category describes this manuscript?: Research

How relevant is this manuscript to the readers? Explain under Public Comments: Interesting - but not very relevant

1. Please explain how this manuscript advances this field of research and/or contributes something new to the literature.: This work has integrated edge, fog, and core clouds together to show this integration can enhance the computation and storage resources allocation, latency, cyber-attack, and privacy-preserving for Human Interaction Recognition of Pervasive Healthcare Monitoring systems. Also, the authors explained how the data can be secured during transmission using multiple security techniques such as OTP, HMAC, and symmetric encryption. In the end, they showed a comparison with recent works in the literature.

2. Is the manuscript technically sound? Please explain your answer under Public Comments below.: Yes

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2. Does the manuscript contain sufficient and appropriate references? Please explain under Public Comments below.: References are sufficient and appropriate

3. Does the introduction state the objectives of the manuscript in terms that encourage the reader to read on? Please explain your answer under Public Comments below.: Yes

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5. Please rate the readability of the manuscript. Explain your rating under Public Comments below.: Easy to read

6. Should the supplemental material be included? (Click on the Supplementary Files icon to view files): Does not apply, no supplementary files included

7. If yes to 6, should it be accepted:

Please rate the manuscript. Explain your choice.: Excellent

Reviewer: 4

Recommendation: Accept With No Changes

Comments:

I am satisfied with this revised paper. All my comments are well addressed and I do not have any further comments

Additional Questions:

1. Which category describes this manuscript?: Research

How relevant is this manuscript to the readers? Explain under Public Comments: Very Relevant

1. Please explain how this manuscript advances this field of research and/or contributes something new to the literature.: In this paper, a framework of the skeleton-based HIR-PHM under secure Edge-Fog-Cloud computing (EFCC) was proposed to manage the computation and storage resources, latency, cyber-attack, and privacy-preserving simultaneously. At the Edge, IoMT with a camera, record the human interaction as videos and sends them to the Fog, which installed a human pose estimation model, PoseNet, to convert the videos into human skeleton data. At the Cloud, a skeleton-based Spatial-Temporal Graph Convolution Network with Pairwise Adjacency Matrix (STGCN-PAM) was employed to recognize the human interaction. A Hybrid of One Time Password (OTP), Hashed Messages Authentication Code (HMAC), and symmetric cipher were employed to secure the skeleton data. The UT-Interaction dataset was used to evaluate the proposed framework. Besides, the computation performance and latency under EFCC were compared with Edge-Fog and Edge-Cloud deployments. Experimental results confirmed two major contributions: 1) the proposed framework has promising performance compared with other methods on the dataset. 2) The skeleton-based HIR-PHM with secure EFCC shows the advantages of better computation performance in terms of frame per second.

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1. Are the title, abstract, and keywords appropriate? Please explain under Public Comments below.: Yes

2. Does the manuscript contain sufficient and appropriate references? Please explain under Public Comments below.: References are sufficient and appropriate

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6. Should the supplemental material be included? (Click on the Supplementary Files icon to view files): Does not apply, no supplementary files included

7. If yes to 6, should it be accepted:

Please rate the manuscript. Explain your choice.: Excellent



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日期: Sat, 22 Oct 2022 16:55:08

標題: **Fwd: MTAP-D-22-02761R1 - [EMID:9df67d8a7fadb6f1]**

Hi, all,

Congratulations!!!

Yun-Ting Zhou, Jilyan Bianca Dy, Shang-Che Hsu, Yu-Ling Hsu, Chao-Lung Yang, and Kai-Lung Hua. " SSRFace: A Face Recognition Framework Against Shallow Data," to appear in Multimedia Tools and Applications (MTAP), 2022. (Impact Factor 2021: 2.577).

Best,

Kai-Lung

----- Forwarded message -----

寄件者: **Multimedia Tools and Applications** <em@editorialmanager.com>

Date: 2022年10月22日 週六 清晨7:31

Subject: MTAP-D-22-02761R1 - [EMID:9df67d8a7fadb6f1]

To: Kai-Lung Hua <hua@mail.ntust.edu.tw>

Dear Prof. Hua:

We are pleased to inform you that your manuscript, "SSRFace: A Face Recognition Framework Against Shallow Data", has been accepted for publication in Multimedia Tools and Applications.

You will soon be contacted by our typesetters with instructions for the next steps in production and publication.

As one part of the production process, you will be sent a set of proofs. Please review the proofs in detail and be sure to verify author affiliations, funding acknowledgements, etc. Once you have submitted proof correction, the article will be published online and no further changes can be made to your manuscript.

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With kind regards,

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