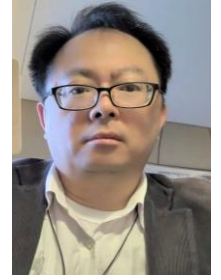


Wei-Chiang Hong
(洪維強)



Dept. of Information Management, Asia Eastern University of Science and Technology,
New Taipei, Taiwan (亞東科技大學資訊管理系)

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訊管理學系)

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Educations(學歷)

- ❖ 2008 **Ph.D.**, Management, Da Yeh University, Changhua, Taiwan (大葉大學管理研究所管理學博士)
- ❖ 1996 **M.S.**, Engineering, National Chiao Tung University, Hsinchu, Taiwan (國立交通大學交通運輸研究所工學碩士)
- ❖ 1994 **B.S.**, Science, Fu-Jen Catholic University, New Taipei, Taiwan (輔仁大學數學系理學學士)

Experiences(經歷)

- ❖ 2021- present **Professor**, Department of Information Management, Asia Eastern University of Science and Technology, Taiwan (亞東科技大學醫護暨管理學院資訊管理系教授)
- ❖ 2022- 2025 **Jointly Appointed Professor**, Department of Information Management, Yuan Ze University, Taiwan (元智大學資訊學院資訊管理學系合聘教授)
- ❖ 2021- 2025 **Head**, Department of Information Management, Asia Eastern University of Science and Technology, Taiwan (亞東科技大學醫護暨管理學院資訊管理系系主任)
- ❖ 2022- 2024 **Honorary Chair Professor**, Department of Information Management, Asia Eastern University of Science and Technology, Taiwan (亞東科技大學醫護暨管理學院資訊管理系榮譽講座教授)
- ❖ 2023- 2024 **Dean**, College of Healthcare & Management, Asia Eastern University of Science and Technology, Taiwan (亞東科技大學醫護暨管理學院院長)
- ❖ 2021- 2023 **Honorary Visiting Professor**, Department of Computer Science and Engineering, ABES (Academy of Business & Engineering Sciences) Engineering College, India (印度商業與工程科學研究院(ABES)工程學院計算機科學與工程學系榮譽客座教授)
- ❖ 2020- 2021 **Dean**, College of Healthcare & Management, Oriental Institute of Technology, Taiwan (亞東技術學院醫護暨管理學群學群長)
- ❖ 2019- 2021 **Head**, Department of Information Management, Oriental Institute of Technology, Taiwan (亞東技術學院資訊管理系系主任)
- ❖ 2013- 2021 **Professor**, Department of Information Management, Oriental Institute of Technology, Taiwan (亞東技術學院資訊管理系教授)
- ❖ 2010- 2013 **Associate Professor**, Department of Information Management, Oriental Institute of Technology, Taiwan (亞東技術學院資訊管理系副教授)
- ❖ 2007- 2010 **Assistant Professor**, Department of Information Management, Oriental Institute

of Technology, Taiwan (亞東技術學院資訊管理系助理教授)

- ❖ 2021- present **Editor-in-Chief (主編)**, *Journal of Intelligent Learning Systems and Applications*
- ❖ 2024- present **Associate Editor (副主編)**, *Applied Soft Computing* (SCI, 2023 IF=7.200)
- ❖ 2018- present **Editor (編委)**, *Computers & Industrial Engineering* (SCI, 2023 IF=6.700)
- ❖ 2008- present **Editor (編委)**, *Energy Sources, Part B: Economics, Planning, and Policy* (SCI; 2023 IF=3.100)
- ❖ 2020- present **Editor (編委)**, *Discover Internet of Things*
- ❖ 2021- present **Editor (編委)**, *Journal of Artificial Intelligence & Data Mining*
- ❖ 2017- present **Guest editor (客座編委)**,
Computers & Industrial Engineering (SCI, 2023 IF=6.700),
Sustainable Computing: Informatics & Systems (SCI, 2023 IF=3.800),
Energies (SCI, 2023 IF=3.000),
Sustainability (SSCI/SCI, 2023 IF=3.300),
Multimedia Tools and Applications (SCI; 2023 IF=3.000),
IET Communications (SCI; 2023 IF=1.500),
Journal of Sensors (SCI; 2023 IF=1.400),
International Journal of Distributed Sensor Networks (SCI, 2023 IF=1.900),
Computer Modeling in Engineering & Science (SCI; 2023 IF=2.200),
Mathematical Problems in Engineering,
Discover Internet of Things,
Emergency Management Science and Technology,
Energy Engineering.
- ❖ 2020- present **Editor of book series (專書編委)**, *Advances in Computing Communications and Informatics* (Bentham Science Publisher, ISSN: 1231-1231 (Online))
- ❖ 2020- present **Editor of proceeding series (學術會議論文集編委)**,
Atlantis Highlights in Computer Sciences (Atlantis Press, ISSN: 2589-4900 (Online)),
Atlantis Highlights in Engineering (Atlantis Press, ISSN: 2589-4943 (Online)),
Advances in Engineering Research (Atlantis Press, ISSN: 2352-5401 (Online))

Major Research Interests (主要研究興趣)

- ❖ Computational Intelligence (計算智能) (Neural Networks (神經網路), Evolutionary Computation (演化計算)).
- ❖ Application of forecasting technology (預測應用技術) (ARIMA, Support vector regression (支持向量回歸), Chaos theory (混沌理論), Cloud theory (雲理論), and Quantum theory (量子理論)).

Cooperation Projects (產學合作計畫)

- ❖ Evolutionary support vector regression for forecasting complex motion of floating platform (基於演化支持向量海上浮式平台複雜運動預測應用)

- ❖ Evolutionary support vector regression for forecasting chaotic motions of floating platform (演化支持向量的海上浮式平台混沌運動預測應用)

Awards & Honors (獲獎與榮譽)

- ❖ 8 papers were list as Highly cited paper in ESI, Clarivate, 11 Jul. 2024.
(8 篇論文被科睿唯安的基本科學指標評為工程類高被引論文)
- ❖ h index =51, total citation=7,835, Web of Science, 26 Sept. 2024.
(Web of Science 的 h 指標=51; 總引用數=7,835 次)
- ❖ **Honorary Chair Professor**, Department of Information Management, Asia Eastern University of Science and Technology, Taiwan, Aug. 2022 to Jul. 2024.
(亞東科技大學醫護暨管理學院資訊管理系榮譽講座教授)
- ❖ **World's Top 2% Scientists 2024** (ranked 23,847th for career-long impact, and 502nd in Artificial Intelligence & Image Processing fields), Stanford University, 16 Sept. 2024.
(2024 全球前 2% 頂尖科學家, 終身影響力位列第 23,847 名, 在「人工智慧與圖像處理」子領域位居第 502 名)
- ❖ **Outstanding Academic Paper (First Prize)**, Science and Technology Achievement Award of Henan Provincial Department of Education, 1 Jun. 2024.
(河南省教育廳科技成果獎——優秀科技論文一等獎。獲獎論文名稱為 A new intelligent hybrid forecasting method for power load considering uncertainty [考慮不確定性的電力負載智慧混合預測新方法])
- ❖ **Pingdingshan Natural Science Outstanding Academic Paper (First Prize)**, Pingdingshan Department of Human Resources and Social Security, 31 Dec. 2023.
(河南省平頂山市第二屆自然科學學術獎——平頂山市自然科學優秀學術論文一等獎。獲獎論文名稱為 Applications of Random forest in multi-variable response surface for short-term load forecasting [應用隨機森林在多變量響應面向中於短期負載預測])
- ❖ **Pingdingshan Natural Science Outstanding Academic Paper (2nd Runner up)**, Pingdingshan Department of Human Resources and Social Security, 31 Dec. 2023.
(河南省平頂山市第二屆自然科學學術獎——平頂山市自然科學優秀學術論文叁等獎。獲獎論文名稱為 Electric load forecasting based on wavelet transform and random forest [基於小波轉換和隨機森林的電力負載預測])
- ❖ **World's Top 2% Scientists 2023** (ranked 27,105th for career-long impact, and 540th in Artificial Intelligence & Image Processing fields), Stanford University, 4 Oct. 2023.
(2023 全球前 2% 頂尖科學家, 終身影響力位列第 27,105 名, 在「人工智慧與圖像處理」子領域位居第 540 名)
- ❖ **Outstanding Academic Paper (Runner up)**, Science and Technology Achievement Award of Henan Provincial Department of Education, 30 Jun. 2023.
(河南省教育廳科技成果獎——優秀科技論文二等獎。獲獎論文名稱為 Forecasting short-term electricity load using hybrid support vector regression with grey catastrophe and random forest modeling [使用灰色災難和隨機森林建模的混合支持向量回歸預測短

期電力負載])

- ❖ **Outstanding Professor Award**, Far Eastern Y. Z. Hsu Science and Technology Memorial Foundation (Taiwan), May 2023.
(財團法人徐有庠先生紀念基金會第 21 屆有庠傑出教授獎)
- ❖ **World's Top 2% Scientists 2022** (ranked 31,638th for career-long impact, and 892nd in Artificial Intelligence & Image Processing fields), Stanford University, 11 Oct. 2022.
(2022 全球前 2% 頂尖科學家，終身影響力位列第 31,638 名，在「人工智慧與圖像處理」子領域位居第 892 名)
- ❖ **World's Top 100 Thousands Scientists** (ranked 53,922nd among all fields, and 589th in Computer Sciences and Technology fields), GlobalAuthorID.com, 31 Aug. 2022.
(全球頂尖前 10 萬名科學家排名第 53,922 名，在「計算機科學與技術」領域第 589 名)
- ❖ **Outstanding Academic Paper (Runner up)**, Science and Technology Achievement Award of Henan Provincial Department of Education, 30 Jun. 2022.
(河南省教育廳科技成果獎——優秀科技論文二等獎。獲獎論文名稱為 **Forecasting electricity consumption using a novel hybrid mode** [使用新型混合模式預測用電量])
- ❖ **2020-2021 Top Cited Article**, *Journal of Forecasting*, Wiley Publisher, Apr. 2022.
(*Journal of Forecasting* 2020-2021 年度高被引論文。獲獎論文名稱為 **A generalized regression model based on hybrid empirical mode decomposition and support vector regression with back propagation neural network for mid-short term load forecasting** [基於混合經驗解析模式、支持向量回歸與倒傳遞神經網路的一般化回歸模型於中短期電力負載預測])
- ❖ **Pingdingshan Natural Science Outstanding Academic Paper (First Prize)**, Pingdingshan Department of Human Resources and Social Security, 1 Jan. 2022.
(河南省平頂山市自然科學學術獎——平頂山市自然科學優秀學術論文一等獎。獲獎論文名稱為 **Hybridizing DEMD and quantum PSO with SVR in electric load forecasting** [混合差分經驗解析模式(DEMD)方法和量子粒子群優化算法(QPSO)的支持向量回歸模型於電力負載預測])
- ❖ **Henan Province Natural Science Outstanding Academic Paper (First Prize)**, Henan Provincial Department of Human Resources and Social Security, 31 Dec. 2021.
(河南省第五屆自然科學學術獎——河南省自然科學優秀學術論文一等獎。獲獎論文名稱為 **Short term load forecasting based on phase space reconstruction algorithm and bi-square kernel regression model** [基於相空間重構算法和雙平方核回歸模型的短期電力負載預測])
- ❖ **World's Top 2% Scientists 2021** (ranked 33,217th for career-long impact, and 562nd in Artificial Intelligence & Image Processing fields), Stanford University, 26 Oct. 2021.
(2021 全球前 2% 頂尖科學家，終身影響力位列第 33,217 名，在「人工智慧與圖像處理」子領域位居第 562 名)
- ❖ **Honorary Visiting Professor**, Department of Computer Science and Engineering, ABES Engineering College (India), Mar. 2021.


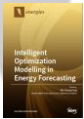

(印度 ABES 工程學院榮譽客座教授)

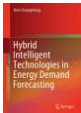
- ❖ **2018 Highly Cited Research Paper**, *Applied Energy*, Elsevier Publisher, Oct. 2020.
(*Applied Energy* 2018 年度高被引論文)
- ❖ **Global Peer Review Awards in Computer Science, Engineering, and Cross-Field**, Publons, Clarivate, Sept. 2019.
(《全球同儕評閱獎》計算機科學、工程學及跨領域)
- ❖ **International Advisory Committee**, Amity University (India), Jul. 2020.
(印度 Amity 大學國際諮詢委員)
- ❖ **Jiangsu Distinguished Professor**, Department of Education, Jiangsu, 30 Jun. 2017.
(獲選江蘇省教育廳江蘇特聘教授)
- ❖ **Min-Jiang Scholar Distinguished Professor**, Department of Education, Fujian, 15 Nov. 2017.
(獲選福建省教育廳閩江學者特聘教授)
- ❖ **Best Reviewer of *Applied Energy* in 2016**, Elsevier Publisher, Aug. 2017.
(*Applied Energy* 最佳評審員)
- ❖ **Top 10 Best Reviewers of *Applied Energy* in 2014**, Elsevier Publisher, Mar. 2015.
(*Applied Energy* 最佳評審員)
- ❖ **Outstanding Professor Award**, Far Eastern Y. Z. Hsu Science and Technology Memorial Foundation (Taiwan), Nov. 2014.
(財團法人徐有庠先生紀念基金會第 12 屆有庠傑出教授獎)
- ❖ **Taiwan Inaugural Scopus Young Researcher Award—Computer Science (2nd Runner up)**, Elsevier Publisher (Taiwan), Nov. 2014.
(台灣第一屆 Scopus 青年科學家獎—資訊科學領域(第三名))
- ❖ **Top Cited Paper Award 2007-2011**, Elsevier Publisher (The Netherlands), Jun. 2012.
(2007-2011 年高引論文獎)

Publications(學術出版)



➤ Books and Edited Books (寫作專書與編輯專書)

2020

- 1  Singh, P.K., Sood, S., Kumar, Y., Paprzycki, M., Pljonkin, A., and **Hong, Wei-Chiang** (Eds.), *Futuristic Trends in Networks and Computing Technologies*, Springer, Singapore, April 2020. (ISBN: 978-981-15-4450-7).
- 2  **Hong, Wei-Chiang*** (Ed.), *Intelligent Optimization Modelling in Energy Forecasting*, MDPI Publisher, Switzerland, March 2020. (ISBN 978-3-03928-364-4).
- 3  Singh, P.K., Bhargava, B.K., Paprzycki, M., Kaushal, N.C., and **Hong, Wei-Chiang** (Eds.), *Handbook of Wireless Sensor Networks: Issues and Challenges in Current Scenario's*, Springer, Switzerland, February 2020. (ISBN: 978-3-030-40305-8).

- 4  **Hong, Wei-Chiang***, *Hybrid Intelligent Technologies in Energy Demand Forecasting*, Springer, Switzerland, January 2020. (ISBN: 978-3-030-36528-8). 科技部學術專書寫作計畫補助 (MOST 108-2410-H-161-004)


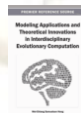
2019

- 5  Li, M.-W., **Hong, Wei-Chiang***, Geng, J., and Geng, H.-S., *Intelligent Prediction Methods and Their Applications in Energy Fields*, Harbin Engineering University Press, Harbin, China, June 2019. (ISBN: 978-7-5661-2150-9) (in Simplified Chinese)
- 6  **Hong, Wei-Chiang***, Li, M.-W., and Fan, G.-F. (Eds.), *Short-Term Load Forecasting by Artificial Intelligent Technologies*, MDPI Publisher, Switzerland, January 2019. (ISBN 978-3-03897-582-3).


2018

- 7  **Hong, Wei-Chiang*** (Ed.), *Hybrid Advanced Optimization Methods with Evolutionary Computation Techniques in Energy Forecasting*, MDPI Publisher, Switzerland, October 2018. (ISBN 978-3-03897-286-0).
- 8  **Hong, Wei-Chiang*** (Ed.), *Kernel Methods and Hybrid Evolutionary Algorithms in Energy Forecasting*, MDPI Publisher, Switzerland, October 2018. (ISBN 978-3-03897-292-1).
- 9  **Hong, Wei-Chiang*** (Ed.), *Hybrid Advanced Techniques for Forecasting in Energy Sector*, MDPI Publisher, Switzerland, October 2018. (ISBN 978-3-03897-290-7).


2013

- 10  **Hong, Wei-Chiang***, *Intelligent Energy Demand Forecasting*, Springer, London, UK, April 2013. (ISBN: 978-1-44714-967-5). 科技部學術專書寫作計畫補助 (NSC 101-2410-H-161-001)
- 11  **Hong, Wei-Chiang*** (Ed.), *Modeling Applications and Theoretical Innovations in Interdisciplinary Evolutionary Computation*, IGI Publisher, March 2013. (ISBN: 978-1-46663-628-6).

2012

- 12  **Hong, Wei-Chiang*** (Ed.), *Principal Concepts in Applied Evolutionary Computation: Emerging Trends*, IGI Publisher, June 2012. (ISBN: 978-1-46661-749-0)

2008

- 13  **Hong, Wei-Chiang***, *Competitiveness in the Tourism Sector: A Comprehensive Approach from Economic and Management Points*, Physica-Verlag, A Springer-Verlag Company, Heidelberg, Germany, May 2008. (ISBN: 978-3-79082-041-6).

➤ Refereed Papers (期刊論文) (*: Corresponding author 通訊作者)

[Total cited numbers: 7,835, based on Web of Science, *h* Index=51; Clarivate ESI highly cited papers: 8]

In press

1. Zhang, Z., Dong, Y., and **Hong, Wei-Chiang*** "Long short-term memory-based twin support vector regression for probabilistic load forecasting," *IEEE Transactions on Neural Networks and*

Learning Systems, November 2023. **SCI 2023 IF=10.200**

2024

2. Fan, G.-F., Feng, Y.-W., Peng, L.-L., Huang, H.-P., and **Hong, Wei-Chiang*** “Uncertainty analysis of photovoltaic power generation system and intelligent coupling prediction,” *Renewable Energy*, 234, 121174, November 2024. **SCI 2023 IF=9.000**
3. Peng, L.-L., Lin, H., Fan, G.-F., Huang, H.-P., and **Hong, Wei-Chiang*** “Runoff prediction based on the IGWOLSTM model: Achieving accurate flood forecasting and emergency management,” *Journal of Hydro-environment Research*, 56 Pages 28-39, September 2024. **SCI 2023 IF=2.400**
4. Fan, G.-F., Li, J.-W., Peng, L.-L., Huang, H.-P., and **Hong, Wei-Chiang*** “The bi-long short-term memory based on multiscale and mesoscale feature extraction for electric load forecasting,” *Applied Soft Computing*, 162, 111853, September 2024. **SCI 2023 IF=7.200**
5. Li, M.-W., Xu, R.-Z., Yang, Z.-Y., Yeh, Y.-H., and **Hong, Wei-Chiang*** “Optimizing berth-crane allocation considering tidal effects using chaotic quantum whale optimization algorithm,” *Applied Soft Computing*, 162, 111811, September 2024. **SCI 2023 IF=7.200**
6. Li, M.-W., Lei, Y.-Z., Yang, Z.-Y., Huang, H.-P., and **Hong, Wei-Chiang*** “An optimization method for maintenance routing and scheduling in offshore wind farms based on chaotic quantum Harris Hawks optimization,” *Ocean Engineering*, 308, 118306, September 2024. **SCI 2023 IF=4.600**
7. Rana, B., Singh, Y., Singh, P.K., and **Hong, Wei-Chiang*** “A priority based energy-efficient metaheuristic routing approach for smart healthcare system (SHS),” *IEEE Access*, 12 Pages 85694-85708, June 2024. **SCI 2023 IF=3.400**
8. Zhang, Z., **Hong, Wei-Chiang***, and Dong, Y. “Multi-hyperplane twin support vector regression guided with fuzzy clustering,” *Information Sciences*, 666, 120435, May 2024. **SCI 2023 IF=N/A**
9. Li, M.-W., Wang, Y.-T., Yang, Z.-Y., Huang, H.-P., **Hong, Wei-Chiang***, and Li, X.-Y. “CQND-WHO: Chaotic quantum nonlinear differential wild horse optimizer,” *Nonlinear Dynamics*, 112 Pages 4899-4927, March 2024. **SCI 2023 IF=5.200**
10. Fan, G.-F., Han, Y.-Y., Li, J.-W., Peng, L.-L., Yeh, Y.-H., and **Hong, Wei-Chiang*** “A hybrid model for deep learning short-term power load forecasting based on feature extraction statistics techniques,” *Expert Systems with Applications*, 238, 122012, March 2024. **SCI 2023 IF=7.500**
11. Yang, Z.-Y., Cao, X., Xu, R.-Z., **Hong, Wei-Chiang***, and Sun, S.-L. “Applications of chaotic quantum adaptive satin bower bird optimizer algorithm in berth-tugboat-quay crane allocation optimization,” *Expert Systems with Applications*, 237, 121471, March 2024. **SCI 2023 IF=7.500**
12. Fan, G.-F., Zhang, R.-T., Cao, C.-C., Peng, L.-L., Yeh, Y.-H., and **Hong, Wei-Chiang*** “The volatility mechanism and intelligent fusion forecast of new energy stock prices,” *Financial Innovation*, 10, 84, February 2024. **SCI 2023 IF=6.900**
13. Li, M.-W., Xu, R.-Z., Yang, Z.-Y., **Hong, Wei-Chiang***, An, X.-G., and Yeh, Y.-H. “Optimization approach of berth-quay crane-truck allocation by the tide, environment and uncertainty factors based on chaos quantum adaptive seagull optimization algorithm,” *Applied Soft Computing*, 152, 111197, February 2024. **SCI 2023 IF=7.200**

2023

14. Fan, G.-F., Zhang, R.-T., Cao, C.-C., Yeh, Y.-H., and **Hong, Wei-Chiang*** “Applications of empirical wavelet decomposition, statistical feature extraction, and ant-lion algorithm with support vector regression for resident electricity consumption forecasting,” *Nonlinear Dynamics*, 111 (2) Pages 20139-20163, November 2023. **SCI 2023 IF=5.200**
15. Fan, G.-F., Han, Y.-Y., Wang, J.-J., Jia, H.-L., Peng, L.-L., Huang, H.-P., and **Hong, Wei-Chiang*** “A new intelligent hybrid forecasting method for power load considering uncertainty measures,” *Knowledge-Based Systems*, 280, 111034, November 2023. **SCI 2023 IF=7.200**
16. Li, D., Jiang, M.-R., Li, M.-W., **Hong, Wei-Chiang***, and Xu, R.-Z. “A floating offshore platform motion forecasting approach based on EEMD hybrid ConvLSTM and chaotic quantum ALO,” *Applied Soft Computing*, 144, 110487, September 2023. **SCI 2023 IF=7.200**
17. Fan, G.-F., Peng, L.-L., Huang, H.-P., and **Hong, Wei-Chiang*** “Use of weighted local constant method to short-term forecasting of electric load in cities at weekends,” *Electric Power Systems Research*, 221, 109464, August 2023. **SCI 2023 IF=3.300**
18. Fan, G.-F., Li, Y., Zhang, X.-Y., Yeh, Y.-H., and **Hong, Wei-Chiang*** “Short-term load forecasting based on a generalized regression neural network optimized by an improved sparrow search algorithm using the empirical wavelet decomposition method,” *Energy Science & Engineering*, 11(7) Pages 2444-2468, July 2023. **SCI 2023 IF=3.500**
19. Fan, G.-F., Zheng, Y., Gao, W.-J., Peng, L.-L., Yeh, Y.-H., and **Hong, Wei-Chiang*** “Forecasting residential electricity consumption using the novel hybrid model,” *Energy & Buildings*, 290, 113085, July 2023. **SCI 2023 IF=6.600**
20. Singh, D., Monga, S.*, Tanwar, S., **Hong, Wei-Chiang***, Sharma, R., and He, Y. “Adoption of blockchain technology in healthcare: Challenges, solutions, and comparisons,” *Applied Sciences*, 13(4), 2380, February 2023. **SCI 2023 IF=2.500**
21. **Hong, Wei-Chiang***, and Liang, Y. “Introduction to the Special Issue on Hybrid intelligent methods for forecasting in resources and energy field,” *Computer Modeling in Engineering and Sciences*, 134(2) Pages 763-766, February 2023. **SCI 2023 IF=2.200**
22. Sagu, A., Gill, N.S., Gulia, P., Singh, P.K., and **Hong, Wei-Chiang*** “Design of metaheuristic optimization algorithms for deep learning model for secure IoT environment,” *Sustainability*, 15(3), 2204, January 2023. **SSCI/SCI 2023 IF=3.300**

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Accurate electric load forecasting can provide critical support to makers of energy policy and managers of power systems. The support vector regression (SVR) model can be hybridized with novel meta-heuristic algorithms not only to identify fluctuations and the nonlinear tendencies of electric loads, but also to generate satisfactory forecasts. However, m ... Show more

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Liang, Y; Niu, DX and Hong, WC 56 References
Jan 1 2019 | ENERGY 166, pp.653-663

Along with the deregulation of electric power market as well as aggregation of renewable resources, short term load forecasting (STLF) has become more and more momentous. However, it is a hard task due to various influential factors that leads to volatility and instability of the series. Therefore, this paper proposes a hybrid model which combines empirical r ... Show more

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The motion of a ship, which has six degrees of freedom, is a complex nonlinear dynamic process with variable periodicity and chaotic characteristics. With the development of smart ships, modern high-precision equipment needs the help from high accuracy of ship motion (SHM) forecasting. Existing models will not easily be able to satisfy future accu ... Show more

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Fan, GF; Yu, M; (-); Hong, WC 38 References
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This paper develops a novel short-term load forecasting model that hybridizes several machine learning methods, such as support vector regression (SVR), grey catastrophe (GC (1,1)), and random forest (RF) modeling. The modeling process is based on the minimization of both SVR and risk. GC is used to process and extract catastrophe points in the long ... Show more

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Fan, GF; Zhang, LZ; (-); Dong, SQ 35 References
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Accurate load forecasting is helpful for optimizing the use of power resources. To this end, this investigation proposes a hybrid model for short-term load forecasting, namely the RF-MGF-RSM model, that hybridizes random forest (RF) model and the mean generating function (MGF) model. A time variable, a random forest forecasting value, and a forecasting ... Show more

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年度	補助類別	學門代碼	計畫名稱	擔任工作	核定經費(新台幣)
113	專題研究計畫 (一般研究計畫)	作業研究/數量方法	應用機器學習方法擷取資料特徵於電力負載複雜時間序列預測	計畫主持人	770,000
111	專題研究計畫 (一般研究計畫)	作業研究/數量方法	應用變分模態分解、深度學習網絡和量子維維最佳化算法於電力負載複雜時間序列預測	計畫主持人	800,000
110	專題研究計畫 (一般研究計畫)	作業研究/數量方法	應用智慧量子計算機制於複雜時間序列預測—以太陽光能發電量預測為例	計畫主持人	810,000
108	專題研究計畫 (學術性專書著作計畫)	作業研究/數量方法	複合智慧型科技於能源需求預測	計畫主持人	848,000
106	專題研究計畫 (一般研究計畫)	人工智慧與計算智慧	結合季節性與與混池最佳化混池蜂群算法於電力負載預測	計畫主持人	1,756,000
104	專題研究計畫 (一般研究計畫)	作業研究/數量方法	多重季節性與混池最佳化、量子粒子算法於多重週期時間序列之預測應用	計畫主持人	689,000
103	短評計畫 (邀請國際科技人士短期訪問)	作業研究/數量方法	關聖威 Steven Guan	計畫主持人	51,975
101	專題研究計畫 (學術性專書著作計畫)	作業研究/數量方法	智慧型能源需求預測學術專書寫作	計畫主持人	392,000
100	延攬科技人才 (延攬博士後研究人才)	作業研究/數量方法	結合季節性與混池最佳化蜂群算法於週期性時間序列之預測	計畫主持人	608,604
100	專題研究計畫 (優秀年輕學者研究計畫)	作業研究/數量方法	結合季節性與混池最佳化蜂群算法於週期性時間序列之預測	計畫主持人	3,118,000
099	專題研究計畫 (一般研究計畫)	作業研究/數量方法	混池演化式算法於參數最佳化與預測支援之應用	計畫主持人	368,000
098	專題研究計畫 (一般研究計畫)	作業研究/數量方法	混池演化式算法於預測模型參數最佳化之應用	計畫主持人	511,000
098	延攬科技人才 (延攬博士後研究人才)	作業研究/數量方法	混池演化式算法於預測模型參數最佳化之應用	計畫主持人	702,641
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 - **National Science and Technology Council (NSTC), Taiwan** (2016) [國家科學及技術委員會(台灣)一般型研究計畫審查員]
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 - **Jaypee University of Information Technology, India** (2019-2022)
- ❖ **Invited Lecture** (特邀報告)

2024

- Applications of chaotic mapping & quantum computing in optimizing O&M scheduling of offshore wind farms, Information Communication Electronics Applied Technology Conference (ICEAT 2024), Banqiao, New Taipei, Taiwan, June 4.

2023

- Chaos cloud quantum bat algorithm and its applications, The International Conference on Smart Electrical Grid and Renewable Energy (SEGRE 2023), Changsha, China, June 18.

2022

- Chaos cloud quantum bat algorithm and its applications, Department of Information Management, Yuan Ze University, Taoyuan, Taiwan, May 16.

2021

- Chaos cloud quantum bat hybrid optimization algorithm, School of Information and Control Engineering, China University of Mining and Technology, Xuzhou, China, May 7.

2020

- Quantum computing mechanism-- Case of hybridizing with meta-heuristic algorithms, School of Information and Control Engineering, China University of Mining and Technology, Xuzhou, China, January 7.

2019

- Academic research papers editing & reviewing experiences, School of Economics and Management, North China Electric Power University, Beijing, China, December 3.
- Hybrid quantum computing mechanism with meta-heuristic algorithms, School of Computer Science and Technology, Jiangsu Normal University, Xuzhou, China, November 6.
- Hybrid quantum computing mechanism with swarm-based meta-heuristic algorithms, Department of Applied Physics, National Kaoshiung University, Taiwan, February 27.

2017

- Academic journals editing & reviewing experiences, School of Management, Fujian University of Technology, China, May 24.
- Research paper writing skills & reviewing experiences, School of Education Intelligent Technology, Jiangsu Normal University, China, April 20.
- Academic research papers editing & reviewing experiences, College of Shipbuilding Engineering, Harbin Engineering University, China, January 13.

2015

- Seasonal mechanism and hybrid algorithms for accuracy improvement, Department of Information Management, National United University, Taiwan, April 9.

2014

- The Developmental Tendency of Evolutionary Algorithms, School of Information, Zhejiang University of Finance & Economics, China, July 5.

2013

- How to prepare a high quality academic research paper, School of Information, Zhejiang University of Finance & Economics, China, November 12.
- Seasonal mechanism and hybrid algorithms for big data processing, School of Information, Zhejiang University of Finance & Economics, China, August 7-13.

2011

- Applications of Hybrid Evolutionary Algorithms in Forecasting, Department of Transportation Science, National Taiwan Ocean University, Taiwan, November 3.
- Experiences exchange in academic paper writing, Research and Development, Oriental Institute of Technology, Taiwan, October 19.

2010

- Forecasting Support Systems and Relevant applications, School of Information, Zhejiang University of Finance & Economics, China, March 6-10.

2009

- Applications of Forecasting Support Systems, Graduate Institute of Applied Statistics, Fu-Jen Catholic University, Taiwan, October 21.

❖ International Conference Technical Program Committee (國際學術會議程式委員會委員):

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- SIRS (2015), SETCAC (2015), IBICA (2015), WCSN (2015), SIMPDA (2015), ISDA (2015), IAS (2015), NaBIC (2015), CASoN (2015), WICT (2015), ADMMET (2015), WCCS (2015), HIS (2015), SoCPaR (2015), ECTA (2015), IDEAL (2015), ICCGI (2015), INTELLI (2015), BIC-TA (2015), KES (2015), ICIC (2015), ICNC-FSKD (2015), IIC (2015), ICACCI (2015), SENSE (2015), ICCME (2015), DMIN (2015), LISS (2015), IAM (2015 Summer), ITISE (2015), HAIS (2015), SOCO (2015), IWANN (2015), ICAS (2015), ICEIS (2015), ACIIDS (2015), SERVICE COMPUTATION (2015), PATTERNS (2015), IEEE SPICES (2015), SENSORNETS (2015), DaEng (2015), ICAART (2015).

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2011

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2007

- IEEE CEC (2007), ISICA (2007), BIC-TA (2007), GEM (2007).

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審查員):

2024 年總計審查 437 篇論文，其中 387 篇為 SCI/SSCI 期刊文章。

- *Information Fusion* (11 papers), *Sustainable Cities and Society* (1 paper), *Energy Conversion and Management* (10 papers), *Journal of Cleaner Production* (2 papers), *Transportation Research Part E* (1 paper), *IEEE Transactions on Intelligent Transportation Systems* (3 papers), *Engineering Applications of Artificial Intelligence* (22 papers), *Tourism Review* (1 paper), *Tourism Management Perspectives* (2 papers), *Knowledge-Based Systems* (2 papers), *Applied Soft Computing* (14 papers), *Financial Innovation* (1 paper), *Journal of Medical Virology* (2 papers), *Computers & Industrial Engineering* (47 papers), *Decision Support Systems* (4 papers), *IEEE Transactions on Power Systems* (6 papers), *Energy and Climate Change* (2 papers), *Current Issues in Tourism* (1 paper), *Neurocomputing* (7 papers), *Nonlinear Dynamics* (3 papers), *Complex & Intelligent Systems* (4 papers), *Journal of Computational Design and Engineering* (1 paper), *Education and Information Technologies* (1 paper), *Journal of Agriculture and Food Research* (3 papers), *Energy Reports* (5 papers), *Applied Ocean Research* (2 papers), *IEEE Sensors Journal* (2 papers), *Image and Vision Computing* (5 papers), *Computers and Electrical Engineering* (5 papers), *Journal of the Knowledge Economy* (2 papers), *International Journal of Adaptive Control and Signal Processing* (2 papers), *Scientific Reports* (3 papers), *Sustainable Computing: Informatics and Systems* (1 paper), *International Journal of Medical Informatics* (2 papers), *International Journal of Fuzzy Systems* (6 papers), *Applied Intelligence* (10 papers), *Biomimetics* (3 papers), *Heliyon* (2 papers), *IEEE Access* (60 papers), *Computing* (1 paper), *International Journal of Machine Learning and Cybernetics* (3 papers), *Soft Computing* (32 papers), *Multimedia Tools and Applications* (14 papers), *Environmental Monitoring and Assessment* (2 papers), *Applied Artificial Intelligence* (4 papers), *Journal of the Operational Research Society* (3 papers), *Mathematical Biosciences and Engineering* (2 papers), *Kybernetes* (7 papers), *Information* (1 paper), *IET Intelligent Transport Systems* (1 paper), *Computer Modeling in Engineering & Sciences* (1 paper), *Cogent Engineering* (1 paper), *Sage Open* (1 paper), *AIMS Energy* (1 paper), *Journal of Intelligent & Fuzzy Systems* (38 papers), *Electrical Engineering* (1 paper), *Measurement and Control* (1 paper), *Network: Computation in Neural Systems* (6 papers), *Journal of the Chinese Institute of Engineers* (1 paper), *International Journal of Uncertainty, Fuzziness and Knowledge Based Systems* (1 paper), *Electronic Research Archive* (2 papers).

2023 年總計審查 721 篇論文，其中 587 篇為 SCI/SSCI 期刊文章。

- *Information Fusion* (9 papers), *Journal of Medical Virology* (8 papers), *Sustainable Cities and Society* (7 papers), *Applied Energy* (1 paper), *Journal of Cleaner Production* (15 papers), *Energy Conversion and Management* (4 papers), *Energy* (5 papers), *Knowledge-Based Systems* (1 paper), *IEEE Transactions on Systems, Man and Cybernetics: Systems* (3 papers), *Journal of Environmental Management* (2 papers), *Applied Soft*

Computing (23 papers), *Tourism Management Perspectives* (2 papers), *IEEE Transactions on Intelligent Transportation Systems* (12 papers), *Financial Innovation* (4 papers), *Computers and Electronics in Agriculture* (1 paper), *Information Sciences* (8 papers), *Engineering Applications of Artificial Intelligence* (54 papers), *Current Issues in Tourism* (2 papers), *Computers & Industrial Engineering* (80 papers), *Network: Computation in Neural Systems* (2 papers), *Tourism Review* (3 papers), *Decision Support Systems* (1 paper), *IEEE Transactions on Big Data* (1 paper), *IEEE Transactions on Vehicular Technology* (2 papers), *Energy & Buildings* (2 papers), *IEEE Transactions on Power Systems* (3 papers), *Neurocomputing* (9 papers), *Computer Communications* (1 paper), *Complex & Intelligent Systems* (3 papers), *Nonlinear Dynamics* (4 papers), *Journal of Theoretical and Applied Electronic Commerce Research* (2 papers), *International Journal of Machine Learning and Cybernetics* (5 papers), *Applied Intelligence* (29 papers), *Energy Reports* (20 papers), *CAAI Transactions on Intelligence Technology* (4 papers), *International Journal of Medical Informatics* (2 papers), *Journal of Computational Design and Engineering* (2 papers), *Scientific Reports* (4 papers), *Biomimetics* (3 papers), *International Journal of Fuzzy Systems* (3 papers), *Soft Computing* (37 papers), *Heliyon* (1 paper), *Sustainability* (3 papers), *IEEE Access* (38 papers), *Energy Science & Engineering* (1 paper), *Buildings* (1 paper), *Journal of the Operational Research Society* (1 paper), *Multimedia Tools and Applications* (21 papers), *Micromachines* (1 paper), *Journal of Supercomputing* (1 paper), *Energies* (8 papers), *International Journal of Adaptive Control and Signal Processing* (1 paper), *Computers, Materials & Continua* (1 paper), *Journal of Marine Science and Engineering* (1 paper), *International Journal of Computational Intelligence Systems* (2 papers), *Electronics* (9 papers), *Atmosphere* (1 paper), *Advanced Intelligent Systems* (2 papers), *Applied Artificial Intelligence* (3 papers), *Applied Sciences* (2 papers), *Symmetry* (2 papers), *IET Intelligent Transport Systems* (4 papers), *Mathematical Biosciences and Engineering* (4 papers), *Kybernetes* (4 papers), *Computer Modeling in Engineering & Sciences* (1 paper), *Intelligent Automation & Soft Computing* (3 papers), *Sage Open* (10 papers), *Axioms* (4 papers), *Measurement and Control* (3 papers), *Journal of Intelligent & Fuzzy Systems* (51 papers), *Electrical Engineering* (2 papers), *Journal of Circuits, Systems and Computers* (3 papers), *International Journal of Uncertainty, Fuzziness and Knowledge-based Systems* (1 paper), *Electronic Research Archive* (5 papers), *Journal of Computational Methods in Sciences and Engineering* (2 papers).

2022 年總計審查 1,103 篇論文，其中 963 篇為 SCI/SSCI 期刊文章。

- *Journal of Medical Virology* (18 papers), *Energy Conversion and Management* (9 papers), *IEEE Transactions on Systems, Man and Cybernetics: Systems* (3 papers), *Applied Energy* (3 papers), *Journal of Cleaner Production* (15 papers), *Sustainable Cities and Society* (8 papers), *IEEE Transactions on Intelligent Transportation Systems* (2 papers), *Applied Soft Computing* (17 papers), *Information Sciences* (7 papers), *IEEE Transactions on Industrial Electronics* (1 paper), *Knowledge-Based Systems* (3 papers), *CAAI Transactions on*

Intelligence Technology (5 papers), *Engineering Applications of Artificial Intelligence* (14 papers), *Tourism Review* (5 papers), *Tourism Management Perspectives* (1 paper), *Current Issues in Tourism* (3 papers), *IEEE Transactions on Power Systems* (6 papers), *Computers & Industrial Engineering* (19 papers), *Decision Support Systems* (1 paper), *Financial Innovation* (4 papers), *Engineering Applications of Computational Fluid Mechanics* (2 papers), *IEEE Transactions on Vehicular Technology* (1 paper), *Journal of Computational Design and Engineering* (2 papers), *Air Quality, Atmosphere & Health* (1 paper), *Neurocomputing* (7 papers), *Computer Communications* (4 papers), *Bioengineering* (2 papers), *Applied Intelligence* (36 papers), *Scientific Reports* (1 paper), *Energy Reports* (22 papers), *International Journal of Machine Learning and Cybernetics* (13 papers), *International Journal of Fuzzy Systems* (5 papers), *Sustainability* (6 papers), *Sensors* (11 papers), *Biomimetics* (2 papers), *Soft Computing* (40 papers), *Micromachines* (1 paper), *International Journal of Information Technology & Decision Making* (2 papers), *IEEE Access* (26 papers), *Energies* (5 papers), *Utilities Policy* (1 paper), *Symmetry* (8 papers), *Health Informatics Journal* (2 papers), *Applied Sciences* (2 papers), *Computational and Mathematical Methods in Medicine* (2 papers), *Entropy* (3 papers), *Electronics* (10 papers), *Optimization and Engineering* (1 paper), *Mathematics* (15 papers), *Multimedia Tools and Applications* (514 papers), *IET Intelligent Transport Systems* (1 paper), *Kybernetes* (5 papers), *Cluster Computing* (1 paper), *Mathematical Biosciences and Engineering* (5 papers), *Sage Open* (1 paper), *Applied Economics* (2 papers), *Journal of Intelligent & Fuzzy Systems* (35 papers), *Polish Journal of Environmental Studies* (1 paper), *Computer Methods in Biomechanics and Biomedical Engineering* (3 papers), *Advances in Mechanical Engineering* (1 paper), *Network: Computation in Neural Systems* (1 paper), *Measurement and Control* (1 paper), *International Journal of Uncertainty, Fuzziness and Knowledge-based Systems* (1 paper), *Machine Learning and Knowledge Extraction* (2 papers).

2021 年總計審查 1,062 篇論文，其中 867 篇為 SCI/SSCI 期刊文章。

- *IEEE Transactions on Systems, Man and Cybernetics: Systems* (6 papers), *IEEE Transactions on Evolutionary Computation* (1 paper), *ACM Computer Surveys* (1 paper), *Applied Energy* (3 papers), *Energy Conversion and Management* (8 papers), *Journal of Cleaner Production* (12 papers), *Engineering Applications of Computational Fluid Mechanics* (3 papers), *IEEE Transactions on Industrial Electronics* (1 paper), *International Journal of Production Economics* (2 papers), *Sustainable Cities and Society* (6 papers), *Current Issues in Tourism* (3 papers), *Energy* (1 paper), *Journal of Ambient Intelligence and Humanized Computing* (1 paper), *Energy Economics* (2 papers), *Expert Systems with Applications* (1 paper), *Energy Reports* (23 papers), *Information Sciences* (7 papers), *Journal of Environmental Management* (4 papers), *Applied Soft Computing* (31 papers), *IEEE Transactions on Power Systems* (26 papers), *Tourism Management Perspectives* (4 papers), *IEEE Transactions on Engineering Management* (4

papers), *Energy & Buildings* (1 paper), *Journal of Computational Design and Engineering* (3 papers), *Decision Support Systems* (2 papers), *Neurocomputing* (5 papers), *Computers & Industrial Engineering* (14 papers), *International Journal of Energy Research* (3 papers), *Nonlinear Dynamics* (2 papers), *Complex & Intelligent Systems* (1 paper), *International Journal of Fuzzy Systems* (9 papers), *Computers in Biology and Medicine* (1 paper), *Scientific Reports* (5 papers), *Energy Science & Engineering* (1 paper), *Mechanics of Advanced Materials and Structures* (2 papers), *International Journal of Machine Learning and Cybernetics* (2 papers), *Advanced Theory and Simulations* (2 papers), *Financial Innovation* (1 paper), *IEEE Systems Journal* (1 paper), *Soft Computing* (20 papers), *Computational Intelligence and Neuroscience* (20 papers), *Materials* (2 papers), *Sensors* (9 papers), *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects* (1 paper), *IEEE Access* (134 papers), *Journal of Modern Power Systems and Clean Energy* (1 paper), *Sustainability* (5 papers), *Plos One* (1 paper), *Engineering Optimization* (1 paper), *IEEE Signal Processing Letters* (1 paper), *Energies* (36 papers), *Journal of Nanomaterials* (1 paper), *International Transactions on Electrical Energy Systems* (1 paper), *Complexity* (19 papers), *Utilities Policy* (1 paper), *Multimedia Tools and Applications* (195 papers), *Symmetry* (11 papers), *Proceedings of the Royal Society A* (1 paper), *Journal of Healthcare Engineering* (1 paper), *Healthcare* (2 papers), *Entropy* (2 papers), *IET Intelligent Transport Systems* (2 papers), *Journal of The Royal Statistical Society Series A-Statistics in Society* (1 paper), *Journal of Advanced Transportation* (3 papers), *Electronics* (10 papers), *Journal of Food Process Engineering* (1 paper), *Journal of Experimental & Theoretical Artificial Intelligence* (1 paper), *Wireless Communications & Mobile Computing* (6 papers), *Journal of Forecasting* (1 paper), *Computational Intelligence* (1 paper), *Journal of Medical Virology* (1 paper), *Mathematics* (119 papers), *Computational and Mathematical Methods in Medicine* (1 paper), *IETE Technical Review* (1 paper), *Journal of Sensors* (2 papers), *International Journal of Photoenergy* (2 papers), *Mathematical Biosciences and Engineering* (2 papers), *International Journal of Communication Systems* (2 papers), *Advances in Civil Engineering* (2 papers), *IET Science, Measurement & Technology* (1 paper), *International Journal of Pest Management* (2 papers), *Applied Bionics and Biomechanics* (1 paper), *Computer Methods in Biomechanics and Biomedical Engineering* (1 paper), *International Journal of Computational Intelligence Systems* (5 papers), *Applied Artificial Intelligence* (2 papers), *Shock and Vibration* (2 papers), *Concurrence and Computation: Practice & Experience* (2 papers), *International Journal of Uncertainty, Fuzziness and Knowledge-based Systems* (5 papers), *IET Software* (1 paper), *SAGE OPEN* (1 paper), *Discrete Dynamics in Nature and Society* (2 papers), *Electronics Letters* (2 papers), *Advances in Mechanical Engineering* (1 paper), *Mathematical Problems in Engineering* (21 papers), *Open Geosciences* (1 paper), *Advances in Mathematical Physics* (1 paper), *Scientific Programming* (1 paper), *Journal of Mathematics* (7 papers), *IEEE Industry Applications Magazine* (3 papers), *Journal of*

Electrical and Computer Engineering (1 paper), *Suranaree Journal of Science and Technology* (3 papers), *Journal of Intelligent & Fuzzy Systems* (38 papers).

2020 年總計審查 763 篇論文，其中 620 篇為 SCI/SSCI 期刊文章。

- *IEEE Transactions on Systems, Man and Cybernetics: Systems* (1 paper), *Applied Energy* (7 papers), *IEEE Network* (2 papers), *Energy Conversion and Management* (11 papers), *Journal of Cleaner Production* (14 papers), *Science of the Total Environment* (1 paper), *Energy* (12 papers), *IEEE Transactions on Power Systems* (19 papers), *Knowledge-Based Systems* (1 paper), *Information Sciences* (7 papers), *Artificial Intelligence Review* (1 paper), *Journal of Environmental Management* (2 papers), *Applied Soft Computing* (15 papers), *Building and Environment* (1 paper), *Decision Support Systems* (1 paper), *Sustainable Cities and Society* (2 papers), *Nonlinear Dynamics* (1 paper), *International Journal of Production Research* (1 paper), *Neurocomputing* (11 papers), *International Journal of Fuzzy Systems* (8 papers), *Current Issues in Tourism* (2 papers), *Computers & Industrial Engineering* (23 papers), *Chaos, Solitons & Fractals* (2 papers), *International Journal of Machine Learning and Cybernetics* (3 papers), *IEEE Access* (47 papers), *International Journal of Energy Research* (4 papers), *Tourism Management Perspectives* (10 papers), *Energy Reports* (1 paper), *International Journal of Electrical Power and Energy Systems* (2 papers), *Atmospheric Pollution Research* (1 paper), *Measurement* (2 papers), *Sensors* (2 papers), *Journal of Modern Power Systems and Clean Energy* (3 papers), *Soft Computing* (54 papers), *Financial Innovation* (2 papers), *Air Quality, Atmosphere and Health* (1 paper), *International Journal of Environmental Research and Public Health* (2 papers), *Plos One* (2 papers), *Energies* (33 papers), *Symmetry* (13 papers), *Sustainability* (4 papers), *Applied Sciences* (2 papers), *Transportmetrica A: Transport Science* (2 papers), *Multimedia Tools and Applications* (222 papers), *Journal of Parallel and Distributed Computing* (2 papers), *Journal of the Operational Research Society* (1 paper), *Journal of Intelligent & Fuzzy Systems* (27 papers), *International Journal of Computational Intelligence Systems* (5 papers), *Mathematics* (7 papers), *Journal of Food Process Engineering* (1 paper), *Journal of Advanced Transportation* (1 paper), *Measurement & Control* (3 papers), *Concurrence and Computation: Practice and Experience* (3 papers), *Polish Journal of Environmental Studies* (1 papers), *International Journal of Uncertainty, Fuzziness and Knowledge-based Systems* (3 papers), *Mathematical Problems in Engineering* (4 papers), *SAGE Open* (1 paper), *Journal of Mathematics* (1 paper).

2019 年總計審查 411 篇論文，其中 342 篇為 SCI/SSCI 期刊文章。

- *IEEE Transactions on Evolutionary Computation* (2 papers), *Applied Energy* (8 papers), *IEEE Transactions on Power Systems* (13 papers), *Energy* (48 papers), *Information Sciences* (4 papers), *Applied Soft Computing* (17 papers), *Journal of Environmental Management* (2 papers), *Sustainable Cities and Society* (1 paper), *IEEE Access* (17 papers), *Neurocomputing* (12 papers), *Decision Support Systems* (1 paper), *International Journal of Machine Learning and Cybernetics* (1 paper), *Computers & Industrial Engineering* (25

papers), *Current Issues in Tourism* (1 paper), *Human-centric Computing and Information Sciences* (1 paper), *International Journal of Production Research* (3 papers), *Computers and Electronics in Agriculture* (2 papers), *International Journal of Fuzzy Systems* (3 papers), *Sensors* (5 papers), *Electric Power Systems Research* (1 paper), *International Journal of Information Technology & Decision Making* (4 papers), *Atmospheric Pollution Research* (2 papers), *Soft Computing* (75 papers), *Computer Communications* (2 papers), *Energies* (32 papers), *Sustainability* (3 papers), *Tourism Management Perspectives* (7 papers), *Entropy* (1 paper), *Annals of Operations Research* (1 paper), *Applied Sciences-Basel* (1 paper), *International Journal of Computational Intelligence Systems* (9 papers), *International Journal of Bifurcation and Chaos* (2 papers), *Symmetry* (5 papers), *Journal of Experimental & Theoretical Artificial Intelligence* (3 papers), *Atmosphere* (1 paper), *Transportmetrica A: Transport Science* (1 paper), *Journal of Advanced Transportation* (2 papers), *Processes* (2 papers), *Cluster Computing* (1 paper), *Electronics* (1 paper), *Journal of Intelligent & Fuzzy Systems* (7 papers), *Annals of Telecommunications* (1 paper), *Journal of Information Security and Applications* (1 paper), *International Journal of Uncertainty, Fuzziness and Knowledge-based Systems* (1 paper), *Mathematics* (4 papers), *Computer Modeling in Engineering & Sciences* (2 papers), *IEICE Transactions on Information and Systems* (2 papers), *Complexity* (1 paper).

2018年總計審查 422 篇論文，其中 295 篇為 SCI/SSCI 期刊文章。

- *IEEE Transactions on Cybernetics* (1 paper), *Applied Energy* (19 papers), *Energy* (11 papers), *Information Sciences* (5 papers), *Applied Soft Computing* (35 papers), *Nonlinear Dynamics* (1 paper), *International Journal of Electrical Power & Energy Systems* (2 papers), *IEEE Access* (2 papers), *Neurocomputing* (2 papers), *Decision Support Systems* (2 papers), *International Journal of Machine Learning and Cybernetics* (6 papers), *Computers & Industrial Engineering* (2 papers), *Computer Methods and Programs in Biomedicine* (1 paper), *Current Issues in Tourism* (1 paper), *International Journal of Forecasting* (1 paper), *International Journal of Production Research* (2 papers), *Computers and Electronics in Agriculture* (2 papers), *International Journal of Fuzzy Systems* (6 papers), *Sensors* (7 papers), *Data Mining and Knowledge Discovery* (1 paper), *International Journal of Information Technology & Decision Making* (3 papers), *Applied Mathematical Modelling* (5 papers), *Proceedings of the Royal Society A: Mathematical, Physical & Engineering Sciences* (1 paper), *Measurement* (9 papers), *Soft Computing* (50 papers), *Energies* (56 papers), *Sustainability* (12 papers), *Tourism Management Perspectives* (2 papers), *International Journal of Environmental Research and Public Health* (1 paper), *Entropy* (1 paper), *Annals of Operations Research* (1 paper), *Applied Sciences-Basel* (2 papers), *International Journal of Computational Intelligence Systems* (1 paper), *Symmetry* (4 papers), *Economic Modelling* (1 paper), *Transportmetrica A: Transport Science* (1 paper), *Journal of Advanced Transportation* (5 papers), *Engineering Optimization* (1 paper), *Electronics* (1 paper), *Journal of Food Process*

Engineering (3 papers), *Mathematical Problems in Engineering* (10 papers), *International Journal of Aerospace Engineering* (1 paper).

2017 年總計審查 338 篇論文，其中 214 篇為 SCI/SSCI 期刊文章。

- *IEEE Transactions on Evolutionary Computation* (5 papers), *IEEE Transactions on Neural Networks and Learning Systems* (5 papers), *Applied Energy* (11 papers), *Tourism Management* (1 paper), *Journal of Cleaner Production* (2 papers), *IEEE Transactions on Power Systems* (11 papers), *Energy* (2 papers), *Future Generation Computer Systems* (3 papers), *Energy and Buildings* (3 papers), *Nonlinear Dynamics* (1 paper), *Information Sciences* (2 papers), *IEEE Transactions on Intelligent Transportation Systems* (3 papers), *Applied Soft Computing* (30 papers), *IEEE Access* (1 paper), *Current Issues in Tourism* (3 papers), *Neurocomputing* (5 papers), *International Journal of Machine Learning and Cybernetics* (2 papers), *Energies* (23 papers), *International Journal of Production Research* (4 papers), *Data Mining and Knowledge Discovery* (1 paper), *International Journal of Fuzzy Systems* (7 papers), *Soft Computing* (35 papers), *Entropy* (1 paper), *International Journal of Bio-Inspired Computation* (1 paper), *Measurement* (7 papers), *Chaos, Solitons & Fractals* (2 papers), *Sustainability* (5 papers), *Complexity* (2 papers), *International Journal of Distributed Sensor Networks* (2 papers), *International Journal of Information Technology & Decision Making* (1 paper), *International Journal of Communication Systems* (2 papers), *Computational Intelligence and Neuroscience* (1 paper), *Cluster Computing* (2 papers), *International Journal of Bifurcation and Chaos* (1 paper), *Journal of the Operational Research Society* (1 paper), *IET Intelligent Transport Systems* (1 paper), *Computational Intelligence* (2 papers), *Symmetry* (12 papers), *International Journal of Uncertainty, Fuzziness and Knowledge-based Systems* (3 papers), *Journal of Scheduling* (1 paper), *Polish Journal of Environmental Studies* (1 paper), *Discrete Dynamics in Nature and Society* (1 paper).

2016 年總計審查 298 篇論文，其中 155 篇為 SCI/SSCI 期刊文章。

- *IEEE Transactions on Evolutionary Computation* (7 papers), *Renewable & Sustainable Energy Reviews* (2 papers), *Applied Energy* (11 papers), *IEEE Transactions on Neural Networks and Learning Systems* (1 paper), *IEEE Transactions on Power Systems* (8 papers), *Information Sciences* (6 papers), *Energy* (5 papers), *Energy and Buildings* (1 paper), *Future Generation Computer Systems* (2 papers), *Expert Systems with Applications* (1 paper), *IEEE Transactions on Intelligent Transportation Systems* (1 paper), *Applied Soft Computing* (23 papers), *Nonlinear Dynamics* (2 papers), *Neurocomputing* (6 papers), *Decision Support Systems* (1 paper), *Computers & Industrial Engineering* (1 paper), *Soft Computing* (19 papers), *Current Issues in Tourism* (1 paper), *Measurement* (12 papers), *Energies* (8 papers), *Physica A: Statistical Mechanics and its Applications* (1 paper), *International Journal of Fuzzy Systems* (3 papers), *Cluster Computing* (2 papers), *International Journal of Bio-Inspired Computation* (2 papers), *Entropy* (3 papers), *Sustainability* (5 papers), *Journal of Sensors* (1 paper), *International Journal of Machine*

Learning and Cybernetics (2 papers), *Chaos, Solitons & Fractals* (3 papers), *Journal of Experimental & Theoretical Artificial Intelligence* (1 paper), *International Journal of Bifurcation and Chaos* (2 papers), *Computational Intelligence and Neuroscience* (3 papers), *IET Intelligent Transport Systems* (1 paper), *International Journal of Information Technology & Decision Making* (1 paper), *Journal of Renewable and Sustainable Energy* (1 paper), *Journal of the Operational Research Society* (1 paper), *Mathematical Problems in Engineering* (3 papers), *Frontiers of Information Technology & Electronic Engineering* (1 paper), *Scientia Iranica* (1 paper), *Communications in Statistics - Theory and Methods* (1 paper).

2015 年總計審查 324 篇論文，其中 170 篇為 SCI/SSCI 期刊文章。

- *IEEE Transactions on Evolutionary Computation* (1 paper), *Applied Energy* (17 papers), *IEEE Transactions on Cybernetics* (1 paper), *IEEE Transactions on Neural Networks and Learning Systems* (3 papers), *Energy* (4 papers), *Information Sciences* (8 papers), *IEEE Transactions on Power Systems* (6 papers), *Nonlinear Dynamics* (3 papers), *Applied Soft Computing* (19 papers), *International Journal of Production Economics* (1 paper), *Decision Support Systems* (3 papers), *Neurocomputing* (27 papers), *Energies* (4 papers), *International Journal of Intelligent Systems* (1 paper), *Sensors* (1 paper), *Journal of Energy Engineering* (3 papers), *Computers and Electronics in Agriculture* (1 paper), *Entropy* (3 papers), *Measurement* (2 papers), *Current Issues in Tourism* (2 papers), *Soft Computing* (38 papers), *IEEE Transactions on Systems, Man, and Cybernetics: Systems* (1 paper), *Neural Computing & Applications* (1 paper), *International Journal of Bio-Inspired Computation* (1 paper), *Journal of the Operational Research Society* (1 paper), *International Journal of Information Technology & Decision Making* (1 paper), *Advances in Meteorology* (1 paper), *International Journal of Fuzzy Systems* (10 papers), *Scientia Iranica* (1 paper), *Advances in Mechanical Engineering* (2 papers), *Journal of Zhejiang University Science C (Computers & Electronics)* (1 paper).

2014 年總計審查 266 篇論文，其中 126 篇為 SCI/SSCI 期刊文章。

- *Renewable & Sustainable Energy Reviews* (1 paper), *Applied Energy* (14 papers), *Energy* (2 papers), *IEEE Transactions on Neural Networks and Learning Systems* (3 papers), *Information Sciences* (3 papers), *IEEE Transactions on Cybernetics* (1 paper), *Nonlinear Dynamics* (5 papers), *IEEE Transactions on Power Systems* (10 papers), *Applied Soft Computing* (2 papers), *IEEE Transactions on Intelligent Transportation Systems* (1 paper), *Decision Support Systems* (1 paper), *Applied Mathematical Modelling* (2 papers), *Expert Systems with Applications* (3 papers), *Neurocomputing* (13 papers), *Energies* (4 papers), *Computers & Industrial Engineering* (1 paper), *Computers and Electronics in Agriculture* (1 paper), *IEEE Transactions on Systems, Man, and Cybernetics: Systems* (1 paper), *Neural Computing & Applications* (3 papers), *International Journal of Information Technology & Decision Making* (1 paper), *IET Generation Transmission & Distribution* (1 paper), *Journal of Energy Engineering* (2 papers), *Soft Computing* (34 papers),

Environmental Engineering and Management Journal (2 papers), *International Journal of Uncertainty Fuzziness and Knowledge-Based Systems* (1 paper), *Current Issues in Tourism* (1 paper), *Discrete Dynamics in Nature and Society* (1 paper), *Central European Journal of Operations Research* (3 papers), *Economic Modelling* (1 paper), *Symmetry* (1 paper), *International Journal of Distributed Sensor Networks* (1 paper), *Advances in Mechanical Engineering* (2 papers).

2013 年總計審查 259 篇論文，其中 135 篇為 SCI/SSCI 期刊文章。

- *Applied Energy* (4 papers), *Energy* (2 papers), *IEEE Transactions on Power Systems* (3 papers), *Transportation Research Part C: Emerging Technologies* (2 papers), *Applied Soft Computing* (9 papers), *Nonlinear Dynamics* (6 papers), *IEEE Transactions on Systems, Man, and Cybernetics: Systems* (1 paper), *Applied Mathematical Modelling* (1 paper), *Decision Support Systems* (2 papers), *Neurocomputing* (28 papers), *Computers & Mathematics with Applications* (1 paper), *Expert Systems with Applications* (1 paper), *Energies* (1 paper), *Soft Computing* (42 papers), *Abstract and Applied Analysis* (1 paper), *Neural Processing Letters* (1 paper), *The Scientific World Journal* (14 papers), *Current Issues in Tourism* (4 papers), *IET Intelligent Transport Systems* (2 papers), *Journal of the Operational Research Society* (1 paper), *Journal of Mountain Science* (1 paper), *Journal of Zhejiang University Science C (Computers & Electronics)* (1 paper).

2012 年總計審查 217 篇論文，其中 83 篇為 SCI/SSCI 期刊文章。

- *IEEE Transactions on Neural Networks* (1 paper), *International Journal of Electrical Power & Energy Systems* (5 papers), *Technological and Economic Development of Economy* (1 paper), *Nonlinear Dynamics* (2 papers), *IEEE Transactions on Power Systems* (5 papers), *Tourism Management* (1 paper), *IEEE Transactions on Systems, Man, and Cybernetics--Part C: Applications and Reviews* (3 papers), *Applied Soft Computing* (10 papers), *International Journal of Production Economics* (1 paper), *Energies* (2 papers), *Applied Mathematical Modelling* (1 paper), *Neurocomputing* (17 papers), *Mathematical Problems in Engineering* (2 papers; 36 special issue proposals), *Current Issues in Tourism* (2 papers), *Neural Processing Letters* (1 paper), *Neural Computing & Applications* (2 papers), *Soft Computing* (19 papers), *Environmental Engineering and Management Journal* (2 papers), *IET Intelligent Transport Systems* (1 paper), *Journal of Hospitality & Tourism Research* (1 paper), *Journal of Mountain Science* (1 paper), *Economic Modelling* (2 papers).

2011 年總計審查 160 篇論文，其中 74 篇為 SCI/SSCI 期刊文章。

- *International Journal of Neural Systems* (3 papers), *IEEE Transactions on Evolutionary Computation* (2 papers), *IEEE Transactions on Neural Networks* (2 papers), *IEEE Transactions on Power Systems* (8 papers), *Applied Soft Computing* (27 papers), *International Journal of Electrical Power & Energy Systems* (5 papers), *IEEE Transactions on Systems, Man, and Cybernetics--Part C: Applications and Reviews* (1 paper), *Soft Computing* (5 papers), *Computers and Electronics in Agriculture* (1 paper),

Neurocomputing (16 papers), *Abstract and Applied Analysis* (1 paper), *Environmental Engineering and Management Journal* (1 paper), *Measurement* (1 paper), *Mathematical Problems in Engineering* (3 special issue proposals), *Neural Computing & Applications* (1 paper).

2010 年總計審查 150 篇論文，其中 76 篇為 SCI/SSCI 期刊文章。

- *IEEE Transactions on Evolutionary Computation* (3 papers), *Tourism Management* (2 papers), *IEEE Transactions on Systems, Man, and Cybernetics--Part C: Applications and Reviews* (2 papers), *Applied Soft Computing* (36 papers), *International Journal of Electrical Power and Energy Systems* (1 paper), *IEEE Transactions on Power Systems* (8 papers), *Computers and Mathematics with Applications* (2 papers), *Neurocomputing* (11 papers), *Journal of Scheduling* (1 paper), *IEEE Transactions on Power Delivery* (5 papers), *Energies* (2 papers), *Journal of Travel & Tourism Marketing* (3 papers), *Mathematical Problems in Engineering* (2 papers).

2009 年總計審查 105 篇論文，其中 45 篇為 SCI/SSCI 期刊文章。

- *IEEE Transactions on Evolutionary Computation* (4 papers), *Water Resources Research* (1 paper), *IEEE Transactions on Systems, Man, and Cybernetics--Part C: Applications and Reviews* (1 paper), *IEEE Transactions on Power Systems* (4 papers), *Tourism Management* (2 papers), *International Journal of Electrical Power and Energy Systems* (7 papers), *Neurocomputing* (16 papers), *Energy Sources, Part B: Economics, Planning, and Policy* (2 papers), *Soft Computing* (2 papers), *IEEE Transactions on Power Delivery* (2 papers), *International Journal of Forecasting* (2 papers), *Optimization and Engineering* (1 paper), *Journal of Information Science and Engineering* (1 paper).

2008 年總計審查 78 篇論文，其中 14 篇為 SCI/SSCI 期刊文章。

- *International Journal of Forecasting* (1 paper), *IEEE Transactions on Systems, Man, and Cybernetics--Part C: Applications and Reviews* (1 paper), *Tourism Management* (1 paper), *Neurocomputing* (5 papers), *Advances in Engineering Software* (1 paper), *Optimization and Engineering* (1 paper), *International Journal of Neural Systems* (1 paper), *International Journal of Electrical Power and Energy Systems* (1 paper), *Journal of Information Science and Engineering* (1 paper), *Current Issues in Tourism* (1 paper).

2007 年總計審查 25 篇論文，其中 5 篇為 SCI/SSCI 期刊文章。

- *IEEE Transactions on Evolutionary Computation* (1 paper), *Applied Intelligence* (2 papers), *Tourism Management* (1 paper), *International Journal of Neural Systems* (1 paper).