

# **CURRICULUM VITAE**

## **1. GENERAL INFORMATION**

Name in English: Ir Prof. Pak Kin WONG  
Name in Chinese: 王百鍵  
Title: Dean of Graduate School and Professor  
in Electromechanical Engineering  
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Place of Birth: Macau  
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### **1.1 Academic background**

Ph.D. in Mechanical Engineering, The Hong Kong Polytechnic University, Hong Kong, 1997

M.Sc. in Manufacturing Systems Engineering, University of Warwick, U.K, 1992

### **1.2 Selected Awards**

1. World's Top 2% Scientists 2023 (By Stanford University)
2. Youth Paper Award, 2023 International Conference on Electric Vehicle and Vehicle Engineering, China, 11/2023
3. Best Paper Award, International Conference on Applied Nonlinear Dynamics, Vibration, and Control- 2023, Hong Kong, S.A.R, 12/2023
4. FST Outstanding Academic Staff Award, 2020/2021
5. FST Outstanding Academic Staff Award, 2018/2019
6. FST Research Excellence Award, 2016/2017
7. UM Academic Staff Award, 2011
8. Best Presentation Award, International Symposium on Extreme Learning Machines (ELM2012), Singapore, 2012

### **1.3 Selected professional affiliations**

1. Fellow, The Hong Kong Institution of Engineers (Discipline: Mechanical)
2. Chartered Fellow of Chartered Association of Building Engineers, U.K.
3. Specialist, Hong Kong Council for Accreditation of Academic and Vocational Qualifications, 12/4/2023- 30/4/2026
4. Vice-President, Board of Supervision, The Association for Promotion of Science & Technology of Macau
5. Vice-President, Board of Supervision, Macao Youth Science Education Association
6. Member, Society of Automotive Engineers (SAE) International

7. Member, American Society of Mechanical Engineers (ASME)
8. Working group member, World Scientific and Engineering Academy and Society
9. Invited member for Macau S.A.R, The fourth Association of Young Scientists, P.R. China
10. Founding member, The Macau Institute of Automotive Engineers

## 2. STUDENT AND POSTDOCTORATE SUPERVISION RECORD

### 2.1 Students and postdoctorate supervised

Postdoctoral fellows supervised:	5
PhD students supervised:	20
MSc students supervised:	51
BSc students supervised:	95

## 3. RESEARCH & PUBLICATIONS

### 3.1 Current research interests

- Artificial intelligence for medical applications
- Automotive engineering
- Fluid power engineering
- Mechanical vibration

### 3.2 Publications

#### 3.2.1 Summary of publications

<i>No. of refereed journal papers</i>	
Lifetime	218 (199 out of 218 have been accepted by or published in SCI-E journals)
No. of SCI-E papers in Q1 journals	<b>82</b>
No. of SCI-E papers in Q2 journals	<b>64</b>
No. of SCI-E papers in Q3 journals	<b>31</b>
No. of SCI-E papers in Q4 journals	<b>22</b>
<i>No. of refereed book chapters</i>	
Lifetime	<b>13</b> (6 out of 13 have been indexed in SCI-E database)
<i>No. of refereed conference papers</i>	
Lifetime	<b>88</b> (14 out of 88 have been indexed in SCI-E database)
<i>No. of books</i>	
Lifetime	<b>4</b>
<b>Total number of publication (Lifetime)</b>	<b>323</b>

No. of highly cited papers in Web of Science from 2014	<b>8</b>
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**Remarks:**

- *SCI-E* => *Science Citation Index Expanded (i.e. ISI Web of Knowledge- Web of Science)*
- *The journal ranking (i.e. Q1,Q2,Q3, & Q4) and the impact factors shown in Sub-section 3.2.2.1 refer to recently available Journal Citation Reports published by Thomson Reuters, unless otherwise specified. Q1 means the best 25% SCI-E journals in related category and the last 25% is denoted as Q4.*

**3.2.2 List of publications**

*My publications can be classified into seven categories and ranked as different levels which are highlighted at the end of each publication with the following notations and remarks.*

Class no.	Research area	Notation
1	Automotive systems	[AS]
	Automotive engine applications of artificial intelligence	[AEAI]
	Environmental technology and policy	[ETP]
2	Engineering applications of artificial intelligence	[EAAI]
3	Fluid power engineering	[FPE]
4	Vibration analysis and control	[VAC]
5	Manufacturing engineering	[MFGE]
6	Medical applications of artificial intelligence	[MAAI]
7	Others	[O]

- # : *SCI-E journal/periodical/book chapter/conference proceedings*
- IF : *Impact factor*

**3.2.2.1 Refereed journal papers**

1. Sun Tianang, **Wong Pak Kin\***, Wang Xiaozheng, Back propagation neural network-based fault diagnosis and fault tolerant control of distributed drive electric vehicles based on sliding mode control-based direct yaw moment control, *Vehicles*, Vol. 6, Issue 1, pp. 93-119, 2024. [AS]
2. Li Qing-Yuan, **Wong Pak-Kin\***, Vong Chi-Man, Fei Kai and Chan In-Neng, A Novel Electric Motor Fault Diagnosis by Using a Convolutional Neural Network, Normalized Thermal Images and Few-Shot Learning, *Electronics*, Vol. 13, Issue 1, 108, 2024. [EAAI]# (IF= 2.9, Q2)
3. Zhang Yu, **Wong Pak Kin\***, Li Wenfeng, Cao Yucong, Xie Zhengchao and Zhao Jing, Fault Diagnosis and Fault Tolerant Control for Distributed Drive Electric Vehicles Through Integration of Active Front Steering and Direct Yaw Moment Control, *Mechatronics*, Vol. 97, Article no. 103116, Feb. 2024. <https://doi.org/10.1016/j.mechatronics.2023.103116> [AS]# (IF=3.498, Q2)
4. Sun Ziyi, Guo Rong\*, Xue Xiang, Hong Ze, Luo Maohui, **Wong Pak Kin**, Liu Jason J.R., Wang Xiaozheng, Application-oriented mode decision for energy management of range-extended electric vehicle based on reinforcement learning, *Electric Power Systems Research*, (Accepted for publication) [AS]# (IF= 3.9, Q2)
5. Wang Xiaozheng, **Wong Pak Kin\***, Guo Rong, Sun Ziyi, Design of an omnidirectional, multi-axle, distributed-drive electric truck with Mecanum wheels and direct yaw moment

- controller, *International Journal of Heavy Vehicle Systems*, (In press) [AS]# (IF =0.6, Q4)
6. Gao Zhijiang, **Wong Pak Kin\***, Zhao Jing, Yang Zhixin, Huang Yingbo, Na Jing, Robust Switched  $H_{\infty}$  Control of T-S Fuzzy-Based MRF Suspension Systems Subject to Input Saturation and Time-Varying Delay, *IEEE Transactions on Industrial Electronics*, <https://doi.org/10.1109/TIE.2023.3303611> (Published online) [AS]# (IF=8.236, Q1)
  7. Yao Liang, Zhao Baoliang\*, Xu Xin, Wang Ziwen, **Wong Pak Kin\***, Hu Ying, Efficient Incremental Offline Reinforcement Learning with Sparse Broad Critic Approximation, *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, Vol. 54, Issue: 1, pp. 156-169, Jan. 2024 [MAAI]# (IF=13.45, Q1)
  8. Xiao Xiangqu, Li Chaoshun\*, Huang Jie, Yu Tian and **Wong Pak Kin**, An Improved Graph Convolutional Networks for Fault Diagnosis of Rolling Bearing with Limited Labeled Data, *Measurement Science and Technology*, Vol. 34, No. 12, Article no. 125109, August 2023 [EAAI]# (IF= 2.4, Q3)
  9. Zhao Jing, Fan Guobin, Guan Jialin, Li Hui\*, Liu Jincan, Xie Zhengchao and **Wong Pak Kin**, Free vibration and dynamic analysis on free-constrained layer of graphene based on composite conical shell via Jacobi-Ritz method, *International Journal of Structural Stability and Dynamics*, <https://doi.org/10.1142/S0219455424500238>, September 2023 (Published online) [O]# (IF=2.558, Q2)
  10. Yan Tao, Qin Ye Ying, **Wong Pak Kin\***, Ren Hao, Wong Chi Hong, Yao Liang, Hu Ying, Chan Cheok I, Gao Shan\*, Chan Pui Pun, Semantic Segmentation of Gastric Polyps in Endoscopic Images Based on Convolutional Neural Networks and Integrated Evaluation Approach, *Bioengineering- Basel*, Vol. 10, Article no. 806, July 2023 [MAAI]# (IF = 4.6, Q2)
  11. **Wong Pak Kin**, Chen Shou Hao\*, Ghadikolaei Meisam Ahmadi\*, Ng Kar Wei, Lee Ming Yuen Simon, Xu Jin Cheng, Lian Zhen Dong, Ren Min, Ning Zhi, Gali Nirmal Kumar, Physical properties and structural characteristics of particulate matter emitted from a diesel engine fueled with biodiesel blends, *Environmental Pollution*, Vol. 333, Article no. 122099, <https://doi.org/10.1016/j.envpol.2023.122099> (Published online), June 2023. [ETP]# (IF= 9.988, Q1)
  12. **Wong Pak Kin**, Ao Di\*, A novel event-triggered torque vectoring control for improving lateral stability and communication resource consumption of electric vehicles, *IEEE Transactions on Intelligent Vehicles*, June 2023, <https://doi.org/10.1109/TIV.2023.3284220> (Published online). [AS]# (IF= 5.009, Q1)
  13. Zhao Jing, Yang Kaiheng, Cao Yucong, Liang Zhongchao\*, Li Wenfeng, Xie Zhengchao and **Wong Pak Kin**, Observer-based discrete-time cascaded control for lateral stabilization of steer-by-wire vehicles with uncertainties and disturbances, *IEEE Transactions on Circuits and Systems I: Regular Papers*, <https://doi.org/10.1109/TCSI.2023.3276945> (Published online), pp. 1-12, May 2023. [AS]# (IF= 4.14, Q2)
  14. **Wong Pak Kin**, Deng Mengqi, Zhao Jing\*, Ghadikolaei Meisam Ahmadi, Wang Hang, Model Reference Backstepping Control for Semi-active Air Suspension Systems with Parameter Uncertainty, *Proceedings of the Institution of Mechanical Engineers Part D - Journal of Automobile Engineering*, (Accepted for publication). [AS]# (IF=1.484, Q3)
  15. Xie Zhengchao, You Wei, **Wong Pak Kin**, Li Wenfeng, Ma Xinbo and Zhao Jing\*, Robust fuzzy fault tolerant control for nonlinear active suspension systems via adaptive hybrid triggered scheme, *International Journal of Adaptive Control and Signal Processing*, Vol. 37, pp. 1608-1627, July 2023. [AS] # (IF=3.637, Q2).

16. **Wong Pak Kin**, Wang Hang\*, Zhao Jing, Robust finite-time fault-tolerant control for vehicle height and posture regulation with air suspension system subject to actuator faults, uncertainties and external disturbance, *Nonlinear Dynamics*, <https://doi.org/10.1007/s11071-023-08355-4> (Published online) March 2023. [AS]# (IF=5.022,Q1)
17. Gan Wanshui, Wu Wenhao, Chen Shifeng\*, Zhao Yuxiang, **Wong Pak Kin**, Rethinking 3D Cost Aggregation in Stereo Matching, *Pattern Recognition Letters*, Vol. 163, pp. 75-81, March 2023. [O]# (IF= 4.757, Q2)
18. Liu Taiyou, Wang Xiaowei, Zhao Jing\*, **Wong Pak Kin**, Wang Yongfu, Robust H-infinity Fuzzy Output Feedback Control for Path Following of FWID-EVs with Actuator Saturation, *International Journal of Fuzzy Systems*, <https://doi.org/10.1007/s40815-023-01469-2> (Publication online), March 2023. [AS]# (IF=4.085, Q2)
19. Zhao Jing, Zhu Yajuan, **Wong Pak Kin\***, Li Wenfeng, Yang Zhixin, Li Panshuo, Song Chonghui, Non-fragile robust output feedback control of uncertain active suspension systems with stochastic network-induced delay, *Nonlinear Dynamics*, <https://doi.org/10.1007/s11071-023-08267-3>, Feb. 2023 (Published online). [AS]# (IF=5.022, Q1)
20. Yin Chunfang, Zhai Xuhui, Sun, Xiaoqiang, Wang, Shaohua\*, **Wong Pak Kin**, Design and performance research of a hydro-pneumatic suspension with variable damping and stiffness characteristics, *Journal of Mechanical Science and Technology*, Vol. 36, No. 10, pp. 4913-4923, Oct. 2022. [AS]# (IF=1.81, Q3)
21. Ao Di, **Wong Pak Kin\***, Huang Wei, Model predictive control allocation based on adaptive sliding mode control strategy for enhancing the lateral stability of four-wheel-drive electric vehicles, *Proceedings of the Institution of Mechanical Engineers Part D - Journal of Automobile Engineering*, <https://doi.org/10.1177/09544070221147327>, Jan. 2023 (Publication online). [AS]# (IF=1.484, Q3)
22. Zhao Jing\*, Liu Jincan, **Wong Pak Kin**, Liang Zhongchao, Xie Zhengchao, Na Jing, Generalized Fuzzy Subset Method for Time-Varying Multi-State Reliability of Perturbation Failure Coupling Measurement System with Limited Expert Knowledge, *IEEE Transactions on Fuzzy Systems*, <https://doi.org/10.1109/TFUZZ.2022.3225683>, Dec. 2022 (Published online). [AEAI]# (IF= 12.029, Q1)
23. **Wong Pak Kin**, Chan In Neng, Yan Hao-Ming, Gao Shan, Wong Chi Hong, Yan Tao\*, Yao Liang, Hu Ying, Wang Zhong-Ren, Yu Hon Ho, Deep learning based radiomics for gastrointestinal cancer diagnosis and treatment: A minireview, *World Journal of Gastroenterology*, Vol. 28, Issue 45, pp. 6363-6379, Dec. 2022. [MAAI]# (IF=5.374, Q2)
24. Cui Xiaolong, Wu Yifan, Zhang Xiaoyuan, Huang Jie, **Wong Pak Kin** and Li Chaoshun\*, A novel fault diagnosis method for rotor-bearing system based on instantaneous orbit fusion feature image and deep convolutional neural network, *IEEE/ASME Transactions on Mechatronics*, Vol. 28, Issue 2, pp. 0113-1024, April 2023. [EAAI]# (IF= 5.303, Q1)
25. Sun Xiaoqiang\*, Wang Yujun, Cai Yingfeng, **Wong Pak Kin**, Chen Long, and Bei Shaoyi, Nonsingular Terminal Sliding Mode based Direct Yaw Moment Control for Four-Wheel Independently Actuated Autonomous Vehicles, *IEEE Transactions on Transportation Electrification*, Vol. 9, Issue 2, pp. 2568- 2582, June 2023. [AS]# (IF = 6.519 ,Q1)

26. Gao Zhijiang, **Wong Pak Kin\***, Zhao Jing, Hua Xingqi, Ma Xinbo, Xie Zhengchao, Design of compensatory backstepping controller for nonlinear magnetorheological dampers, *Applied Mathematical Modelling*, Vol. 114, pp. 318-337, Oct. 2022. [AS]# (IF= 5.336, Q1)
27. Liang Zhongchao, Wang Zhongnan, Zhao Jing\*, **Wong Pak Kin**, Yang Zhi-Xin and, Ding Zhengtao, Fixed-time and Fault-tolerant Path Following Control for Autonomous Vehicles with Unknown Parameters Subject to Prescribed Performance, *IEEE Transactions on Systems, Man and Cybernetics: Systems*, Vol. 53, Issue: 4, pp. 2363-2373, Oct. 2022 (Published online). [AS]# (IF=13.45, Q1)
28. Zhao Jing, Li Wenfeng, Hu Chuan\*, Guo Ge, Xie Zhengchao, **Wong Pak Kin**, Robust Gain-Scheduling Path Following Control of Autonomous Vehicles Considering Stochastic Network-Induced Delay, *IEEE Transactions on Intelligent Transportation Systems*, <https://doi.org/10.1109/TITS.2022.3207023>, Sept. 2022, (Published online). [AS]# (IF=6.492, Q1)
29. Liang Zhongchao, Wang Zhongnan, Zhao Jing\*, **Wong Pak Kin**, Yang Zhixin and Ding Zhengtao, Fixed-time Prescribed Performance Path-following Control for Autonomous Vehicle with Complete Unknown Parameters, *IEEE Transactions on Industrial Electronics*, Vol. 70, Issue: 8, pp. 8426-8436, August 2023. [AS]# (IF=8.236, Q1)
30. Zhao Jing, Xiao Yang, Liang Zhongchao\*, **Wong Pak Kin**, Xie Zhengchao, Ma Xiaoguang, Adaptive Event-Triggered Interval Type-2 T-S Fuzzy Control for Lateral Dynamic Stabilization of AEVs with Intermittent Measurements and Actuator Failure, *IEEE Transactions on Transportation Electrification*, Vol. 9, Issue 1, pp. 254-265, March 2023. [AS]# (IF = 6.519 ,Q1)
31. Xie Zhengchao, You Wei, **Wong Pak Kin**, Li Wenfeng, Zhao Jing\*, Fuzzy robust non-fragile control for nonlinear active suspension systems with time varying actuator delay, *Proceedings of the Institution of Mechanical Engineers Part D - Journal of Automobile Engineering*, <https://doi.org/10.1177/09544070221125528>, pp.1-17, Sept. 2022 (Published online) [AS]# (IF=1.484, Q3)
32. Ma Xinbo, **Wong Pak Kin\***, Li Wenfeng, Zhao Jing, Ghadikolaei Meisam Ahmadi, Xie Zhengchao, Multi-objective  $H_2/H_\infty$  control of uncertain active suspension systems with interval time-varying delay, *Proceedings of the Institution of Mechanical Engineers Part I - Journal of Systems and Control Engineering*, Vol. 237, Issue 2, pp. 335-347, Feb. 2023 [AS]# (IF= 1.623, Q4)
33. Zhao Jing, Dong Jingang, **Wong Pak Kin\***, Ma Xiaoguang, Wang Yongfu, Lv Chao, Interval fuzzy robust non-fragile finite frequency control for active suspension of in-wheel motor driven electric vehicles with time delay, *Journal of the Franklin Institute – Engineering and Applied Mathematics*, Vol. 359, Issue 12, Aug. 2022 [AS]# (IF=4.504, Q1)
34. Xie Zhengchao, Wang Deli, **Wong Pak Kin**, Li Wenfeng, Zhao Jing\*, Dynamic-output-feedback based interval type-2 fuzzy control for nonlinear active suspension systems with actuator saturation and delay, *Information Sciences*, Vol. 607, pp. 1174-1194, Aug. 2022. [AS]# (IF=6.795, Q1)
35. Zhao Jing, **Wong Pak Kin\***, Li Wenfeng, Ghadikolaei Meisam Ahmadi, Xie Zhengchao, Reliable Fuzzy Sampled-Data Control for Nonlinear Suspension Systems Against Actuator Faults, *IEEE/ASME Transactions on Mechatronics*, Vol. 27, Issue: 6, pp. 5518-5528, July 2022. [AS]# (IF= 5.303, Q1)
36. Lai Qi, Vong Chi Man\*, **Wong Pak Kin**, Wang Shi Tong, Yan Tao, Choi I Cheong, Yu Hon Ho, Multi-scale Multi-instance Multi-feature Joint Learning Broad Network

- (M3JLBN) for Gastric Intestinal Metaplasia Subtype Classification, *Knowledge-Based Systems*, Vol. 249, Article no. 108960, May 2022. [MAAI]# (IF=8.038, Q1)
37. Yu Guokuan, **Wong Pak Kin\***, Huang Wei, Zhao Jing, Wang Xian-Bo, Yang Zhi-Xin, Distributed Adaptive Consensus Protocol for Connected Vehicle Platoon with Heterogeneous Time-varying Delays and Switching Topologies, *IEEE Transactions on Intelligent Transportation Systems*, Vol. 23, Issue: 10, pp. 17620-17631, Oct. 2022. [AS]# (IF=6.492, Q1)
  38. **Wong Pak Kin**, Ghadikolaei Meisam Ahmadi\*, Chen Shou Hao, Fadairo Adebayo Afolabi, Ng Kar Wei, Lee Ming Yuen Simon, Xu Jin Cheng, Lian Zhen Dong, Li Lin, Wong Hang Cheong, Ning Zhi, Gali Nirmal Kumar, Zhao Jing, Physical, chemical, and cell toxicity properties of mature/aged particulate matter (PM) trapped in a diesel particulate filter (DPF) along with the results from freshly produced PM of a diesel engine, *Journal of Hazardous Materials*, Vol. 434, Article 128855, July 2022. [ETP]# (IF=10.588, Q1)
  39. Zhao Rongchen, Xie Wei\*, Yu Gan, Wang Guangwei, **Wong Pak Kin**, Silvestre Carlos, Adaptive Ride Height Controller Design for Vehicle Active Suspension Systems with Uncertain Sprung Mass and Time-varying Disturbances, *International Journal of Robust and Nonlinear Control*, <https://doi.org/10.1002/rnc.6127> (Published online), April 2022. [AS]# (IF=4.406, Q1)
  40. Wang Hang, **Wong Pak Kin\***, Zhao Jing, Yang Zhao-Xu, Yang Zhixin, Observer-based robust gain-scheduled control for semi-active air suspension systems subject to uncertainties and external disturbance, *Mechanical Systems and Signal Processing*, Vol. 173, Article no. 109045, March 2022. [AS]# (IF=6.823, Q1)
  41. Yao Liang, **Wong Pak Kin\***, Zhao Baoliang, Wang Ziwen, Lei Long, Wang Xiaozheng, Hu Ying \*, Cost-sensitive broad learning system for imbalanced classification and its medical application, *Mathematics*, Vo. 10, Article no. 829, pp. 1-19, March 2022. [MAAI]# (IF =2.258, Q1)
  42. Zhao Jing, Gao Zhijiang, Li Hui\*, **Wong Pak Kin**, Xie Zhengchao, Semi-active control for the nonlinear vibration suppression of square-celled sandwich plate with multi-zone MRE filler core, *Mechanical Systems and Signal Processing*, Vol. 172, Article no. 108953, Feb. 2022, <https://doi.org/10.1016/j.ymssp.2022.108953> [AS]# (IF=6.823, Q1)
  43. **Wong Pak Kin**, Ghadikolaei Meisam Ahmadi\*, Chen Shou Hao, Fadairo Adebayo Afolabi, Ng Kar Wei, Lee Ming Yuen Simon, Xu Jin Cheng, Lian Zhen Dong, Li Shuli, Wong Hang Cheong, Zhao Jing, Ning Zhi, Gali Nirmal Kumar, Physicochemical and cell toxicity properties of particulate matter (PM) from a diesel vehicle fueled with diesel, spent coffee ground biodiesel, and ethanol, *Science of the Total Environment*, Vol. 824, Article no. 153873, Feb. 2022. [ETP]#(IF = 7.963, Q1)
  44. **Wong Pak Kin**, Yao Liang\*, Yan Tao, Choi I. Cheong, Yu Hon Ho, Hu Ying, Broad Learning System Stacking with Multi-scale Attention for the Diagnosis of Gastric Intestinal Metaplasia, *Biomedical Signal Processing and Control*, Vol. 73, 103476, March 2022. [MAAI]# (IF=5.067, Q2)
  45. Yang Yousheng\*, Zhang Meng, Yankey Richmond Polley, **Wong Pak Kin**, Research on Seawater Hydraulic Internal Ball Gear Pump, *Proceedings of the Institution of Mechanical Engineers Part C - Journal of Mechanical Engineering Science*, <https://doi.org/10.1177/09544062211070466>, Jan. 2022 (Published online). [O]# (IF=1.762, Q3)
  46. **Wong Pak Kin**, Yan Tao\*, Wang Huaqiao, Chan In Neng, Wang Jiangtao, Li Yang, Ren Hao, Wong Chi Hong, Automatic detection of multiple types of pneumonia: Open

- dataset and a multi-scale attention network, *Biomedical Signal Processing and Control*, Vol. 73, 103415, March 2022. [MAAI]# (IF=5.067, Q2)
47. Li Wenfeng, Xie Zhengchao, Zhao Jing\*, Gao Jinwu, Hu Yunfeng, **Wong Pak Kin**, Human-Machine Shared Steering Control for Vehicle Lane Keeping Systems via A Fuzzy Observer-Based Event-Triggered Method, *IEEE Transactions on Intelligent Transportation Systems*, Vol. 30, Issue: 8, pp. 13731-13744, 2022. [AS]# (IF=6.492, Q1)
  48. **Wong Pak Kin**, Jiang Sai Biao\*, Fault Diagnosis of Induction Motors Under Untrained Loads With a Feature Adaptation and Improved Broad Learning Framework, *IEEE/ASME Transactions on Mechatronics*, Vol. 27, Issue 5, pp. 3041-3052, Dec. 2021. [EAAI]# (IF=5.303, Q1)
  49. Yang Zhao-Xu, Rong Hai-Jun, **Wong Pak Kin\***, Angelov Plamen, Vong Chi Man, Chiu Chi Wai, and Yang Zhi-Xin, A Novel Multiple Feature-based Engine Knock Detection System using Sparse Bayesian Extreme Learning Machine, *Cognitive Computation*, <https://doi.org/10.1007/s12559-021-09945-3> (Published online) Jan. 2022. [AS]# (IF=5.418, Q1)
  50. Zhao Jing, Wang Xiaowei, Liang Zhongchao\*, Li Wenfeng, Wang Xianbo, **Wong Pak Kin**, Adaptive event-based robust passive fault tolerant control for nonlinear lateral stability of autonomous electric vehicles with asynchronous constraints, *ISA Transactions*, Vol. 127, pp. 310-323, August 2022. [AS]# (IF= 6.468, Q1)
  51. Ma Kuo, Xie Zhengzhao\*, Zhao Jing\*, Li Wenfeng, **Wong Pak Kin**, Robust Takagi-Sugeno Fuzzy Fault Tolerant Control for Vehicle Lateral Dynamics Stabilization with Integrated Actuator Fault and Time Delay, *Journal of Dynamic Systems Measurement and Control- Transactions of the ASME*, Vol. 144, pp. 021002-1-021002-18, Feb. 2022. [AS]# (IF= 1.372, Q4)
  52. Ao Di, Huang Wei\*, **Wong Pak Kin\*** and Li Jialin, Robust Backstepping Super-Twisting Sliding Mode Control for Autonomous Vehicle Path Following, *IEEE Access*, Vol. 9, pp. 123165-123177, Sep. 2021. [AS]# (IF=3.367, Q2)
  53. Sun Xiaoqiang\*, Wang Yujun, Cai Yingfeng, **Wong Pak Kin** and Chen Long, An Adaptive Nonsingular Fast Terminal Sliding Mode Control for Yaw Stability Control of Bus based on STI Tire Model, *Chinese Journal of Mechanical Engineering*, Vol. 34, Issue 1, Article no. 79, pp.1-14, Dec. 2021. [AS]# (IF= 1.936, Q3)
  54. Sun Xiaoqiang\*, Wang Yujun, Cai Yingfeng, **Wong Pak Kin**, Chen Long, NFTSM Control of Direct Yaw Moment for Autonomous Electric Vehicles with Consideration of Tire Nonlinear Mechanical Properties, *Bulletin of the Polish Academy of Sciences: Technical Sciences*, Vol. 69 (3), Article no. e137065, 2021. [AS]# (IF= 1.662, Q3).
  55. Sun Xiaoqiang\*, Hu Weiwei, Wu Pengcheng, **Wong Pak Kin**, Chen Long, Modeling of Tire Longitudinal-slip Mechanical Characteristics Based on Piecewise Affine Identification Method, *Journal of Xi'An Jiaotong University*, Vol. 55, No. 7, pp. 52-60, July 2021. [AS]
  56. Ghadikolaei Meisam Ahmadi\*, **Wong Pak Kin**, Cheung Chun Shun, Zhao Jing, Ning Zhi, Yung Ka-Fu, Wong Hang Cheong, Gali Nirmal Kumar, Why is the world not yet ready to use alternative fuel vehicles?, *Heliyon*, Vol. 7, e07527, 2021. [ETP]#
  57. Li Hongyan, Vong Chi Man\*, **Wong Pak Kin**, Ip Weng Fai, Yan Tao, Choi I Cheong, Yu Hon Ho, A Multi-feature Fusion Method for Image Recognition of Gastrointestinal Metaplasia (GIM), *Biomedical Signal Processing and Control*, Vol. 69, 102909, August 2021. [MAAI]# (IF=5.067, Q2)
  58. Yang Zhi-Xin, Yu Guokuan, Zhao Jing, **Wong Pak Kin** and Wang Xian-Bo\*, Online



- Equivalent Degradation Indicator Calculation for Remaining Charging-discharging Cycle Determination of Lithium-ion Batteries, *IEEE Transactions on Vehicular Technology*, Vol. 70, Issue 7, pp. 6613-6625, July 2021. [AS]# (IF= 5.978, Q1)
59. Yan Tao, **Wong Pak Kin\***, Qin Ye-Ying, Deep learning for diagnosis of precancerous lesions in upper gastrointestinal endoscopy: A review, *World Journal of Gastroenterology*, Vol. 27, No. 20, pp. 2531-2544, May 2021. [MAAI]# (IF=5.374, Q2)
  60. Li Wenfeng, Xie Zhengchao, **Wong Pak Kin**, Hu Yunfeng, Guo Ge and Zhao Jing\*, Event-Triggered Asynchronous Fuzzy Filtering for Vehicle Sideslip Angle Estimation with Data Quantization and Dropouts, *IEEE Transactions on Fuzzy Systems*, <https://doi.org/10.1109/TFUZZ.2021.3075761>, April 2021. [AS]# (IF= 12.029, Q1)
  61. Gu Suhang, Vong Chi Man, **Wong Pak Kin**, Wang Shitong\*, Fast Training of Adversarial Deep Fuzzy Classifier by Downsizing Fuzzy Rules with Gradient Guided Learning, *IEEE Transactions on Fuzzy Systems*, Vol. 30, No. 6, pp. 1967-1980, June 2022 [O]# (IF= 12.029, Q1)
  62. Xu Yahui, Xie, Zhengchao\*, Zhao Jing\*, Li Wenfeng, Li Panshuo, **Wong Pak Kin**, Robust Non-fragile Finite Frequency H infinity Control for Uncertain Active Suspension System with Time Delay Using T-S Fuzzy Approach, *Journal of the Franklin Institute – Engineering and Applied Mathematics*, Vol. 358, Issue 8, pp. 4209-4238, May 2021. [AS]# (IF=4.504, Q1)
  63. Chen Yingfo, **Wong Pak Kin\***, Yang Zhi-Xin, A New Adaptive Region of Interest Extraction Method for Two-lane Detection, *International Journal of Automotive Technology*, Vo. 22, No. 6, pp. 1631-1649, Dec. 2021. [AS]# (IF=1.269, Q4)
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#### **3.2.2.4 Books**

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### 3.3 External grants

No.	Project title	Investigator * (Principal investigator) # (Co-principal investigator)	Funding agency and amount	Date/Year
1	Cooperative optimal control for offshore wind and sea wave energy conversion system with guaranteed safety and high efficiency (0091/2023/AMJ)	<b>Wong Pak Kin*</b> Yang Zhixin#	Science and Technology Development Fund of Macau (FDCT) and Ministry of Science Technology of P.R. China (MOST) MOP 2,015,000	1/12/2023-30/11/2026
2	Industrial-university research on an advanced pressure relief technology for intelligent pneumoperitoneum systems (0001/2023/AMR) (EF2023-00064-FST)	Industrial partner: Johnny Man*  University Partner: <b>Wong Pak Kin*</b>	Funding Scheme for Industry-University-Research Partnership for Enterprises, Science and Technology Development Fund of Macau (FDCT) MOP 250,000	17/9/2023-18/03/2024
3	Intelligent diagnosis system for multiple tasks and multiple types of lesions in upper gastrointestinal tract based on Transformer (0026/2022/A)	<b>Wong Pak Kin*</b> Yu Hon Ho# Yan Tao# Chan In Neng# Vong Chi Man# Li Mo Fong#	Science and Technology Development Fund of Macau (FDCT) MOP 646,000	5/9/2022-4/9/2024
4	Multi-mode switching and fault tolerant control on intelligent electronically controlled air suspension system and its applications (2220004003107) (EF2023-00091-FST)	Wei Heng* <b>Wong Pak Kin*</b> Xie Zhengchao*	Zhuhai Industry-University-Research Cooperation, Zhuhai-Hong Kong-Macao Cooperation Project (珠海市產學研合作珠港澳合作項目) MOP 361,600/904,000	1/1/2023- 30/6/2025

5	Fuzzy modeling and event triggered control on nonlinear dynamics of air suspension system, (2023A1515012327) (EF006/FST-WPK/2023/GDS TC)	<b>Wong Pak Kin*</b>	Guangdong Basic and Applied Basic Research Foundation (Guangdong Natural Science Fund) (廣東省自然科學基金-面上項目) MOP 120,000	1/1/2023-31/12/2025
6	Cooperative research and development of electronic control system for lateral stability of pure electric bus with air suspension systems (BZ2022055)	Sun Xiaoqiang* <b>Wong Pak Kin*</b>	Jiangsu Province Science and Technology Special Fund (Innovative Support Project for International Science and Technology Cooperation/ Hong Kong, Macao and Taiwan Science and Technology Cooperation) 江蘇省科技計畫專項資金 (創新支撐計劃國際科技合作/港澳臺科技合作) RMB 1,000,000	1/5/2022-30/4/2025
7	Low-cost dynamic high-precision autonomous positioning and scene understanding for autonomous driving (EF2023-00074-FST)	Vong Chi Man* <b>Wong Pak Kin</b>	2023 Shenzhen-Hong Kong-Macao Science and Technology Research Programme (Type C), 2023 年度深港澳科技計劃項目 (C 類項目) RMB 2,400,000	1/5/2023- 30/4/2025
8	Study on key technologies for intelligent sensing and precision control of surgical robot under dynamic environment (2021B1515130003) (EF003/FST-WPK/2022/GDSTC)	Hu Ying* Heng Pheng Ann* <b>Wong Pak Kin*</b> Yang Jian* Wang Qiong*	Guangdong Basic and Applied Basic Research Fund, Shenzhen Joint Fund (Guangdong-Shenzhen Joint Fund) Guangdong-Hong Kong-Macao Research Team Project (广东省基础与应用基础研究基金-深圳市联合基金(粤深联合基金), 粤港澳研究团队项目) MOP 2,471,600	1/10/2021-30/9/2025



9	An advanced noise reduction technology for circulating smoke extraction system for surgery (0003/2021/AMR)	Industrial partner: Johnny Man*  University Partner: <b>Wong Pak Kin*</b>	Funding Scheme for Industry-University-Research Partnership for Enterprises, Science and Technology Development Fund of Macau (FDCT) MOP 250,000	17/11/2021-16/05/2022 2
10	Hybrid dynamic modeling and active fault tolerant control on multi-mode switching air suspension systems (52175127)	<b>Wong Pak Kin*</b> [Under Zhuhai UM Science & Technology Research Institute (ZUMRI)]	General project, National Nature Science Foundation of China RMB 580,000 = MOP 738,340	1/1/2022-31/12/2025
11	Development of a Multi-agent Behaviour Model and Optimization of Charging Station Map for Implementation of Electric Taxis in Hong Kong - a Pilot Study (UGC/FDS24/E08/21)	Wu Yang, Andrew* Dong Zhao Yang# <b>Wong Pak Kin#</b> Xu Zhao# Leung Chun Wah# Chan Kai Yue, Jason# Lau Yui Yip#	Research Grant Council (RGC) of Hong Kong HK\$ 681,182 = MOP 702,979.8	1/1/2022-31/12/2024
12	Intelligent Diagnosis of Gastric Intestinal Metaplasia by using Gastroscopy Images and Incremental Broad Learning (0021/2019/A)	<b>Wong Pak Kin*</b> Choi I Cheong# Vong Chi Man# Yan Tao# Yu Hon Ho# Li Mo Fong#	Science and Technology Development Fund of Macau (FDCT) MOP 420,000	6/1/2020-5/1/2022
13	Investigations on Regulation Mechanism and Dynamic Temperature Compensation System of Valve Controlled Adjustable Hydraulic Shock Absorbers (EF009/FST-WPK/2019/DSTGP) (2019A1515011602)	<b>Wong Pak Kin*</b>	Guangdong Basic and Applied Basic Research Fund (Guangdong Natural Science Fund) (廣東省自然科學基金-面上項目)  RMB 100,000= MOP 127,300	1/10/2019-30/9/2022
14	Fingerpost 2.0 – Intelligent Rotational Wayfinding Sign for Smart City (047/2017/A)	Leong S.W. Brandon* <b>Wong Pak Kin#</b> Wong Hang Cheong#	Science and Technology Development Fund of Macau (FDCT)  MOP 230,000	17/8/2017- 16/8/2019
15	Simplification of finite element modeling for multi-layer plates by using single layer equivalent material properties (012/2015/A)	<b>Wong Pak Kin*</b>	Science and Technology Development Fund of Macau (FDCT)  MOP 426,000	25/11/2015- 24/5/2018

16	Semi-dense tracking and mapping (SDTAM) and its application in real-time 3D reconstruction (050/2015/A)	Vong Chi Man* <b>Wong Pak Kin#</b>	Science and Technology Development Fund of Macau (FDCT)  MOP 478,000	21/1/2016- 20/1/2018
17	Single Point Incremental Forming for Biomedical Applications (107/2013/A3)	<b>Wong Pak Kin*</b> Tam Lap Mou# Yang Zhixin#	Science and Technology Development Fund of Macau (FDCT)  MOP 1,430,000	8/10/2014 -30/11/2016
18	Experimental Investigation and Modeling on the Performance and Emissions of a LPG-Diesel Dual Fuel Engine (G-YN77)	Cheung Chun Shun* Ning Zhi# <b>Wong Pak Kin#</b>	The Hong Kong Polytechnic University  HK\$ 150,000 = MOP 154,800	1/1/2014- 30/10/2015
18	Efficient and Parsimonious Modeling by Sparse Bayesian Extreme Learning Machine (075/2013/A)	Vong Chi Man* <b>Wong Pak Kin#</b>	Science and Technology Development Fund of Macau (FDCT)  MOP 397,000	31/12/2013- 30/12/2015
30	Modelling and optimization of automotive engine dynamic performance under numerical and nominal data (019/2007/A)	<b>Wong Pak Kin*</b> Vong Chi Man # Tam Lap Mou #	Science and Technology Development Fund of Macau (FDCT)  MOP 470,000	31/10/2007- 30/10/2009
31	Energy saving for public electromechanical facilities	Tam Lap Mou* <b>Wong Pak Kin #</b>	Civic & Municipal Affairs Bureau of Macau S.A.R  MOP 65,000	1/1/2001- 31/12/2001

### **3.4 Internal grants**

*\*RC(UM): Research Committee, University of Macau*

No.	Project title	Investigator * (Principal investigator) # (Co-principal investigator)	Funding agency and amount	Date/Year
1	Suppression of negative effect and collaborative control of safety and energy-saving for hub motor driven electric vehicles with magnetorheological suspension systems (MYRG-GRG2023-00235-FST-UMDF)	<b>Wong Pak Kin*</b>	RC(UM) MOP 400,000	1/1/2024-31/12/2025

2	Impact of vehicle light on properties of particulate matters emitted from vehicles and its potential effect on human health and the environment (MYRG-CRG2022-00006-FST)	<b>Wong Pak Kin*</b> Lee Ming Yuen, Simon Ng Kar Wei, Billy	RC(UM) MOP 1,599,200	9/2/2023-8/2/2025
3	Receding horizon optimal control for automotive suspension systems with hydraulic adjustable dampers based on model-data-driven strategy (MYRG2022-00099-FST)	<b>Wong Pak Kin*</b>	RC(UM) MOP 250,000	1/1/2023- 31/12/2024
4	Robust and fault-tolerant control of automotive air suspension systems with multiple parametric uncertainties (MYRG2020-00045-FST)	<b>Wong Pak Kin*</b>	RC(UM) MOP 75,000	1/1/2022- 31/12/2023
5	Adaptive Control of Vehicle Yaw Stability using Active Front Steering and Random Projection Neural Network (MYRG2019-00028-FST)	<b>Wong Pak Kin*</b>	RC(UM) MOP 151,300	1/1/2020- 31/12/2021
6	Study on Dynamic Characteristics of Automotive Hydraulic Adjustable Dampers and its Application to Semi-active Suspension Systems (MYRG2017-00135-FST)	<b>Wong Pak Kin*</b>	RC(UM) MOP 405,000	1/9/2017- 31/8/2020
7	Design, control and applications of a novel hybrid active air suspension system for automobiles (MYRG2016-00212-FST)	<b>Wong Pak Kin*</b>	RC(UM) MOP 673,285	1/9/2016- 31/12/2019
8	Sparse Bayesian Extreme Learning Committee Machine for Engine Simultaneous Fault Diagnosis (MYRG2015-00077-FST)	Yang Zhixin* <b>Wong Pak Kin#</b> Vong Chi Man#	RC(UM) MOP 496,200	1/4/2015- 31/3/2018
9	Design, calibration and control of a variable dual-fuel automotive engine system (MYRG2014-00178-FST)	<b>Wong Pak Kin*</b> Vong Chi Man#	RC (UM) MOP 840,000	1/4/2014- 31/3/2017
10	Analytical modeling and analysis on vibration control of rotating plates by multiple constrained layer damping patches (MYRG2014-00058-FST)	<b>Wong Pak Kin*</b>	RC(UM) MOP 300,000	1/8/2014- 31/12/2016
11	Compact Modelling by Sparse Bayesian Extreme Learning Machine for Big Data (MYRG2014-00083-FST)	Vong Chi Man* <b>Wong Pak Kin #</b>	RC(UM) MOP 556,000	1/6/2014- 31/5/2016
12	Multiple-objective control and hardware-in-the loop testing of regenerative active suspension systems for automobiles (MYRG077(Y1-L2)-FST13-WPK)	<b>Wong Pak Kin*</b> Xie Zheng Chao#	RC (UM) MOP 450,000	1/5/2013- 30/11/2016
13	Modelling and optimization of bio-fuelled automotive engines using advanced machine learning techniques (MYRG075(Y1-L2)-FST13-VCM)	Vong Chi Man* <b>Wong Pak Kin #</b>	RC (UM) MOP 560,000	1/5/2013- 31/12/2015

14	Design and control of noise-insensitive active vehicle suspensions based on wheelbase preview (MYRG081(Y1-L2)-FST12-WPK)	<b>Wong Pak Kin*</b> Xie Zheng Chao#	RC (UM) MOP 560,000	1/6/2012- 31/12/2014
15	Simultaneous fault diagnosis of automotive engine based on ignition patterns (MYRG075(Y1-L2)-FST12-VCM)	Vong Chi Man* <b>Wong Pak Kin #</b> Ip Weng Fai#	RC (UM) MOP 400,000	1/6/2012- 31/12/2014
16	Study on an Integration Knowledge Unified Framework of Production Forecasting Method Based on Grey Neural Network Model (MYRG082(Y1-L2)-FST12-WSF)	Wong Seng Fat* <b>Wong Pak Kin #</b>	RC (UM) MOP 564,000	1/9/2012- 31/5/2015
17	Model predictive engine air-ratio control using online relevance vector machine (MYRG149(Y1-L2)-FST11-WPK)	<b>Wong Pak Kin*</b> Vong Chi man# Ip Weng Fai#	RC(UM) MOP 399,900	1/6/2011- 31/5/2013
18	Feature extraction and support vector machines method for fault diagnosis of power generation equipment (MYRG153(Y1-L2)-FST11-YZX)	Yang Zhixin* <b>Wong Pak Kin#</b> Vong Chi Man#	RC(UM) MOP 365,600	1/6/2011-31/5/2013
19	Forecasting daily ambient air pollution using kernel learning methods with wavelet analysis (MYRG141(Y1-L2)-FST11-IWF)	Ip Weng Fai* Vong Chi man# <b>Wong Pak Kin#</b>	RC(UM) MOP 391,000	1/1/2011- 31/12/2012
20	Design and optimization of passive and active control on aerodynamic coupling between wind field and wind turbine blade (MYRG155(Y1-L2)-FST11-XZC)	Xie Zheng Chao* Sin Vai Kuang# <b>Wong Pak Kin #</b>	RC(UM) MOP 246,480	6/1/2011- 31/7/2013
21	Automotive engine idle-speed control optimization using artificial intelligence (UL011/09-Y1/EME/WPK01/FST)	<b>Wong Pak Kin*</b> Tam Lap Mou # Vong Chi Man #	RC (UM) MOP 438,250	1/1/2009- 31/12/2011
22	Dynamic modeling, control and optimization of rotating plates with using constrained layer damping (SFR016/09-10S/ZCX/FST)	Xie Zheng Chao* <b>Wong Pak Kin #</b>	RC (UM) MOP 91,000	1/9/2009- 31/8/2011
23	Case-based reasoning for engine ignition system trouble diagnosis with wavelet packet transform and kernel principal components analysis (RG064/09-10S/VCM/FST)	Vong Chi Man* <b>Wong Pak Kin #</b>	RC (UM) MOP 99,500	1/9/2009- 31/8/2011
24	Signal analysis of automotive engine spark ignition system using case-based reasoning (CBR) and case-based maintenance (CBM) (RG057/08-09S/VCM/FST)	Vong Chi Man* <b>Wong Pak Kin #</b>	RC (UM) MOP 98,500	1/1/2008– 31/12/2009
25	Modelling and optimization of automotive engine dynamic performance under numerical and nominal data (RG067/06-07S/WPK/FST)	<b>Wong Pak Kin*</b> Vong Chi Man # Tam Lap Mou #	RC (UM) MOP 287,420	1/1/2007- 31/12/2008
26	Data preprocessing and modelling of advanced automotive engines (RG075/04-05S/WPK/FST)	<b>Wong Pak Kin*</b> Vong Chi Man # Li Yi Ping #	RC (UM) MOP 193,202	1/2/2005- 31/12/2006

27	Prediction of vehicle performance using neural-networks (RG023/02-03S/WPK/FST)	<b>Wong Pak Kin*</b> Vong Chi Man #	RC (UM) MOP 95,400	1/2/2003- 31/12/2004
28	Application of data mining technique for automotive engine data analysis (RG028/01-02S/VCM/FST)	Vong Chi Man* <b>Wong Pak Kin #</b>	RC (UM) MOP 60,060	1/2/2002- 31/12/2002
29	Secure access system for intelligent rooms/buildings (RG053/01-02S/MPU/FST)	Mak Peng Un* Vai Mang I # <b>Wong Pak Kin #</b>	RC (UM) MOP 81,800	15/4/2002- 31/12/2002
30	Smart information system for high-occupancy parking lots-Phases I & II (RG037/00-01S/MPU/FST)	Mak Peng Un* <b>Wong Pak Kin #</b> Vai Mang I #	RC (UM) MOP 99,200	1/3/2001– 30/6/2002
31	Case-based adaptation for hydraulic power circuit design (RG077/99-00S/BO/FST)	Otakar Babka* <b>Wong Pak Kin #</b> Vong Chi Man #	RC (UM) MOP 29,500	1/1/2000– 31/10/2000
32	Internet based concurrent engineering of mold design and production in agile manufacturing (RG026/98-99S/SJ/FST)	Sun Jian* <b>Wong Pak Kin #</b> Sio Sei Hoi # Shum Song On #	RC (UM) MOP 60,000	1/1/1998- 31/12/2000
33	An investigation of bacteria control for central air conditioning system using ultra violet light (RG012/98-99S/TLM/FST)	Tam Lap Mou* <b>Wong Pak Kin #</b>	RC (UM) MOP 120,807	1/1/1998- 31/12/2000

## 4. PROFESSIONAL SERVICE

### 4.1 Editorship

1. Guest editor, Journal of Control Science and Engineering, Special Issue on Advanced Control in Micro/Nano Systems, Hindawi Publishing Corporation. (SCOPUS journal) (2010-2012)
2. Lead Guest editor and Guest editor, Mathematical Problems in Engineering, Annual Special Issue on Engineering Applications of Intelligent Monitoring and Control, Hindawi Publishing Corporation. (SCI-E journal) (Appointed in 2012, 2014 and 2016)
3. Lead guest editor, Advances in Mechanical Engineering, Special issue on Intelligent Monitoring, Diagnosis and Control in Mechanical Engineering, (SCI-E journal), SAGE journals. (Appointed in 2016)
4. Editorial board member, Vehicles, (ESCI, Web of Science journal) MDPI. (Appointed in 8/2017)
5. Co-guest editor, Advances in Mechanical Engineering, Special issue on Advances in Applied Smart Manufacturing, (SCI-E journal), SAGE journals. (2019-2021)
6. Editorial board member, Advances in Mechanical Engineering, (SCI-E journal), SAGE journals. (Appointed in 2019)
7. Editorial board member, Nonlinear Engineering – Modelling and Application, (ESCI, Web of Science journal), De Gruyter. (Appointed in 2020)
8. Associate Editor, International Journal of Automotive Science and Technology. Publisher: Otomotiv Mühendisleri Derneği. (Appointed in 2021)
9. Editorial board member, Artificial Intelligence in Medical Imaging, Biashideng Publishing Group. (Appointed in 2021)
10. Lead guest editor, Shock and Vibration, Special issue on Intelligent Diagnosis, Prognosis

- and Control of Machinery based on Sound and Vibration Signals, Hindawi Publishing Corporation. (SCI-E journal) (2021-2022)
11. Guest editor, Sensors, Special issue on Modeling, Monitoring, Diagnosis, Prognosis and Control in Electromechanical Systems, MDPI. (SCI-E journal) (2022-2023)
  12. Editorial board member, AIMS Bioengineering, Publisher: AIMS Press (ESCI, Web of Science Journal) (Appointed in 2022)
  13. Editorial board member, Proceedings of the Institution of Mechanical Engineers Part I - Journal of Systems and Control Engineering, SAGE. (SCI-E journal) (Appointed in 2024)