

Professor Qinglai Wei

Department of Engineering Science, Faculty of Innovation Engineering
Macau University of Science and Technology

PhD. Supervisor

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Academic Qualification:

- Ph.D., Control Theory and Control Engineering, 2009, Advisor: Prof. Huaguang Zhang
Northeastern University, Shenyang, Liaoning, China
- M.S., Control Theory and Control Engineering, 2005, Advisor: Prof. Xianwen Gao
Northeastern University, Shenyang, Liaoning, China
- B.S., Automation, 2002, Advisor: Baodong Xu
Northeastern University, Shenyang, Liaoning, China

Teaching Area

Optimal Control, Intelligent Control, Self-Learning Control

Research Area

Learning Control and Systems, Control Science and Control Engineering, Artificial Intelligence

Working Experience

- 2020/11 present Professor
Macau Institute of Systems Engineering, Macau University of Science and Technology
- 2018/3 present Associate Director
The State Key Laboratory of Management and Control for Complex Systems, Institute of Automation, Chinese Academy of Sciences
- 2016/10 present Professor
The State Key Laboratory of Management and Control for Complex Systems, Institute of Automation, Chinese Academy of Sciences
- 2014/1 2014/2 Visiting Scholar

University of Texas at Arlington, USA. UTA Research Institute.

Visit Prof. Frank L. Lewis

- 2012/10 2016/9 Associate Professor
The State Key Laboratory of Management and Control for
Complex Systems, Institute of Automation, Chinese Academy of
Sciences
- 2011/7 2012/9 Assistant Professor
The State Key Laboratory of Management and Control for
Complex Systems, Institute of Automation, Chinese Academy of
Sciences
- 2009/2 2011/6 Postdoctoral Fellow
The State Key Laboratory of Management and Control for
Complex Systems, Institute of Automation, Chinese Academy of
Sciences

Research Grants

9/1/2022 12/31/2025: PI, Integrated Modeling and Self-Optimal Control of Incomplete Information for Building and Distributed Energy Systems, Science and Technology Development Fund (FDCT), Macao Funding Scheme for Key R&D Projects, FDCT-22-009-MISE, 2,221,000 MOP

7/1/2020 12/31/2024: PI, Self-Learning Optimization Control of Urban Energy Management System Based on Edge Computing National Key Research and Development Plan "Strategic Science and Technology Innovation Cooperation" Key Special Project, 3,000,000 CNY.

1/1/2021 12/31/2022: Two-Person Zero-Sum Game Theory Based on Virtual-Chinese Academy of Sciences Guidance Sub-Project (A Class), 3,600,000CNY.

1/1/2021 12/31/2024: PI, Multi-Level Self-Learning Collaborative Optimal Control of Smart Coal-Fired Power Generation Systems, National Natural Science Foundation of China (62073321), 590,000 CNY.

12/1/2021 12/31/2022 Development of Self-Tuning Software for Power Generation Process Control Parameters Based on Self-Learning Optimization Algorithm North China Electric Power Research Institute Project, 475,000CNY.

7/1/2020 12/1/2020 2020 Summer School on AI and CI Technologies for Industry, Computational Intelligence Society Fund, 5000\$.

1/1/2020 12/31/2024 -Research Project Chinese Academy of Sciences, 5,000,000 CNY.

9/1/17 12/31/17: PI, China Association for Science and Technology Foundation for the International Organization Affairs, 20,000 CNY.

12/1/17 -Based Iterative Adaptive Dynamic programming for Nonlinear
ars.

1/1/18 - The National Science Fund for Outstanding Young Scholars (61722312), 1,300,000 CNY.

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- [36] (SCI)
vol. 11, no. 4, pp.
- [37] 1176–1190, Oct. 2014 (SCI)
- [38] (SCI)
- [39] (SCI)
- [40] (SCI)
- [41] (SCI)
- [42]
- [43]
- [44] 96–113, Oct. 2015. (SCI)
- [45] (SCI)
- [46] , Nov. 2015 (SCI)
- [47] (SCI)
- [48] (SCI)
- [49] (SCI)
- [50] (SCI)
- [51] (SCI)
- [52] 23, no. 7–8, pp. 1851–1863, Dec. 2013. (SCI)
- [53] (SCI)
- (SCI)

Director Awards, 2011 and 2013, The State Key Laboratory of Management and Control for Complex Systems, Institute of Automation, Chinese Academy of Sciences

- 1) 2022.1 至今, IEEE Transactions on Intelligent Vehicles, Associate Editor
- 2)

Qinglai Wei

Learning Neural Networks: Methods, Systems, and Applica

Neurocomputing, Mar. 2018.

23) **Neurocomputing**, Guest Editor

Zhigang Zeng, Amir Hussain, and **Qinglai Wei**

Neurocomputing, Feb. 2014.

24) **Neural Computing & Applications**, Guest Editor

Stefano Squartini, Jinhua Lu, and **Qinglai Wei**

Neural Computing & Applications, Feb.

2013.

Personal Website

<https://peopleucas.ac.cn/~weiqinglai>