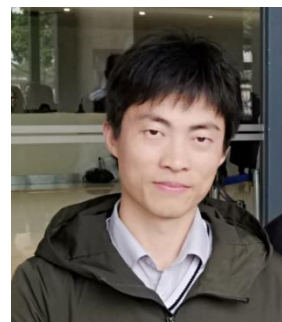# CURRICULUM VITA

Personal Information

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Education

- 08/2018- present   PhD program, Computer Science, University of Macau, Macau.
- 08/2014-07/2017   M.Phil. degree, Electromechanical Engineering, University of Macau, Macau.
- 09/2009-07/2013   B.S. degree, Mechanical Engineering, Shandong University of Technology, Shandong, China

English Level

- CET6, TOEFL, GRE

Research Interests

- Intelligent robotics: motion/manipulation planning, calligraphy robot.

- Machine learning: generative adversarial networks, knowledge graph, and graph-based learning.

Research Experiences

- 2021-present   **State Key Laboratory of Internet of Things for Smart City,** University of Macau. Researching on intelligent robotics, machine learning.
- 2018-2021   **Software Engineering Lab,** University of Macau. Researching on robot control, Kinematics analysis, GUI design, calligraphy reproduction.
- 2014-2017   **Mechatronics Lab,** University of Macau. Researching on mobile robot design, motion analysis, and intelligent control with SolidWorks, Protel DXP, LabVIEW and MATLAB, etc.
- 2011-2014   **Mechatronics Lab,** Shandong University of Technology. Researching on mechanical design, Printed Circuit Board (PCB) design, 3D model rendering, single-chip microcomputer design with SolidWorks, AutoCAD, Protel DXP, LabVIEW, etc.

Teaching Experiences

- 2018-2021   **Teaching Assistant,** University of Macau. Faculty of Science and Technology, University of Macau

    * Information Technology Fundamentals and Practices (course 2020-2021)

    * Principles and Applications of Concurrent Programming (course 2018-2019)

    * Object-Oriented Analysis and Design Patterns (course 2018-2019)

    * English Language Centre - Teaching assistant certificate

- 2019-present   **Residential Tutor,** Lui Che Woo College, University of Macau.

Publications

* Generative adversarial networks based motion learning towards robotic calligraphy synthesis. **Xiaoming Wang**, Yilong Yang, Weiru Wang, Yuanhua Zhou, Yongfeng Yin and Zhiguo Gong. CAAI Transactions on Intelligence Technology (**JCR Q1**), 2023. (First Author)

* Style Generation in Robot Calligraphy with Deep Generative Adversarial Networks. **Xiaoming Wang**, Zhiguo Gong. Applied Intelligence Journal (**JCR Q2**), Under Review. (First Author)

* A Real-Time Multi-Task Learning System for Joint Detection of Face, Facial Landmark and Head Pose. Qingtian Wu, **Xiaoming Wang**, Lei Dai, Fei Richard Yu and Liming Zhang. IEEE Internet of Things Journal (**JCR Q1**), Under Review.

* Configuration Analysis and Design of a Multidimensional Tele-operator Based on a 3-P(4S) Parallel Mechanism. Xiao Xiao, Yangmin Li and **Xiaoming Wang**. Journal of Intelligent & Robotic Systems (**JCR Q3**), 2018.

* Dynamic performances analysis of hybrid press based on dependent generalized coordinates. Jinliang Gong, **Xiaoming Wang**, Fengan Huang and Yanfei Zhang. Journal of Mechanical Engineering Science (**JCR Q3**), 2015.

Academic activities

* 2021-present, IEEE Robotics and Automation Society, membership, Macau

* 2021-present, IEEE Young Professionals Program, Macau

* Served as a reviewer of IEEE/ASME Transactions on Mechatronics, CAAI Transactions on Intelligence Technology, etc.

* Served as a volunteer for IJCAI 2023.

Internship

* 2023.05-2023.11, Zhuhai UM Science & Technology Research Institute (ZUMRI).

Funding

* 2019-2023, Integrated application of intelligent operation and maintenance technology for the Hong Kong-Zhuhai-Macao Bridge. National Key Research & Development Program of China. (Grant no: 2019YFB1600704, Main contributor)

Awards

* 2018-present，Research Assistant scholarship, PhD program, University of Macau

* 2019-2021, Teaching Assistant scholarship, PhD program, University of Macau

* 2015-2018，Research Assistant scholarship, master program, University of Macau

* 2011-2014，School scholarship, Shandong University of Technology

* 2012，Specialized scholarship of Scientific and Technological

* 2012，Second prize of the Twelfth Session "The Challenge Cup" Shandong University Student Extracurricular Academic Science and Technology Work Competition

* 2011，Second prize of "National 3D Innovative Design Competition"

More info

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