

个人简历

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教育背景

博士研究生，机器人视觉感知及工业应用，查尔姆斯理工大学，哥德堡，瑞典	2021.08 - 2026.06
理学硕士，信息学，爱丁堡大学，爱丁堡，英国	2018.09 - 2019.11
工学学士，通信工程，北京邮电大学，北京，中国	2014.09 - 2018.06

研究经历

博士研究生，生产系统系，工业与材料科学学院，查尔姆斯理工大学，哥德堡，瑞典	2021.08 - 2026.06
研究助理，模式识别国家重点实验室，中国科学院自动化研究所，北京，中国	2019.10 - 2021.06
研究助理，下一代互联网研究中心，北京邮电大学，北京，中国	2017.08 - 2017.10

发表成果

Google Scholar (h-index 7, 2025年6月): https://scholar.google.com/citations?user=hKFj_QwAAAAJ
Scopus (h-index 5, 2025年6月): <https://www.scopus.com/authid/detail.uri?authorId=56181425300>

期刊

1. **Wang, H.**, Salunkhe, O., Quadrini, W., Lämkuil, D., Ore, F., Despeisse, M., Fumagalli, L., Stahre, J., & Johansson, B. (2024). A systematic literature review of computer vision applications in robotized wire harness assembly. *Advanced Engineering Informatics*, 62, 102596. doi: 10.1016/j.aei.2024.102596
2. Johansson, B., Despeisse, M., Bokrantz, J., Braun, G., Cao, H., Chari, A., Fang, Q., González Chávez, C. A., Skoogh, A., Söderlund, H., **Wang, H.**, Wärnefjord, K., Nyborg, L., Sun, J., Örtengren, R., Schumacher, K. A., Espinal, L., Morris, K. C., Nunley, J., Kishita, Y., Umeda, Y., Acerbi, F., Pinzone, M., Persson, H., Charpentier, S., Edström, K., Brandell, D., Gopalakrishnan, M., Rahnama, H., Abrahamsson, L., Rönnbäck, A. Ö., & Stahre, J. (2024). Challenges and opportunities to advance manufacturing research for sustainable battery life cycles. *Frontiers in Manufacturing Technology*, 4, 1360076. doi: 10.3389/fmtec.2024.1360076
3. Zhu, X., Yu, C., Huang, D., Lei, Z., **Wang, H.**, & Li, S. Z. (2023). Beyond 3dmm: Learning to capture high-fidelity 3d face shape. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 45(2), 1442-1457. doi: 10.1109/TPAMI.2022.3164131

会议

1. **Wang, H.**, Salunkhe, O., Quadrini, W., Lämkuil, D., Ore, F., Johansson, B., & Stahre, J. (2023). Overview of computer vision techniques in robotized wire harness assembly: Current state and future opportunities. *Procedia CIRP*, 120, 1071-1076. doi: 10.1016/j.procir.2023.09.127
2. Salunkhe, O., Quadrini, W., **Wang, H.**, Stahre, J., Romero, D., Fumagalli, L., & Lämkuil, D. (2023). Review of current status and future directions for collaborative and semi-automated automotive wire harnesses assembly. *Procedia CIRP*, 120, 696-701. doi: 10.1016/j.procir.2023.09.061
3. Despeisse, M., Johansson, B., Bokrantz, J., Braun, G., Chari, A., Chen, X., Fang, Q., González Chávez, C. A., Skoogh, A., Stahre, J., Theradapuzha Mathew, N., Turanoglu Bekar, E., **Wang, H.**, & Örtengren, R. (2023). Battery production systems: State of the art and future developments. *Advances in Production Management Systems. Production Management Systems for Responsible Manufacturing, Service, and Logistics Futures*, 521-535. doi: 10.1007/978-3-031-43688-8_36
4. **Wang, H.**, & Johansson, B. (2023). Deep learning-based connector detection for robotized assembly of automotive wire harnesses. *2023 IEEE 19th International Conference on Automation Science and Engineering (CASE)*, 1-8. doi: 10.1109/CASE56687.2023.10260619
5. Zhu, X., **Wang, H.**, Fei, H., Lei, Z., & Li, S. Z. (2021). Face forgery detection by 3d decomposition. *2021 IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2928-2938. doi: 10.1109/CVPR46437.2021.00295
6. Zhu, X., Yang, F., Huang, D., Yu, C., **Wang, H.**, Guo, J., Lei, Z., & Li, S. Z. (2020). Beyond 3dmm space: Towards fine-grained 3d face reconstruction. *Computer Vision - ECCV 2020*, 343-358. doi: 10.1007/978-3-030-58598-3_21

报告

1. 2024 World manufacturing report - New perspectives for the future of manufacturing: Outlook 2030. Available: <https://worldmanufacturing.org/report/report-2024-new-perspectives-for-the-future-of-manufacturing-outlook-2030/>
2. 2023 World manufacturing report - New business models for the manufacturing of the future. Available: <https://worldmanufacturing.org/report/report-2023-new-business-models-for-the-manufacturing-of-the-future/>

学位论文

1. Wang, H. (2024). *Toward enabling robotic visual perception for assembly tasks: An application in wire harness assembly onto electric vehicles* [Licentiate thesis]. Available: <https://research.chalmers.se/en/publication/540720>

科研项目

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- 1. Code Agents: AI-powered end-to-end solutions for flexible manufacturing, VINNOVA, Sweden, 2024-2025
 - 2. Boosting the Exploitation of Standardisation Inputs from European Projects (STAND4EU), Horizon Europe, EU, 2022-2024
 - 3. PLEnary multi-User developMent arena for future industrial workspaces (PLENUM), VINNOVA, Sweden, 2022-2025
 - 4. DIGITAL work InStructions for cognitive work (DIGITALIS), SIP Produktion2030, VINNOVA, Sweden, 2022-2024
 - 5. Empowering Human Workers for Assembly of Wire Harnesses (EWASS), SIP Produktion2030, VINNOVA, Sweden, 2022-2025
 - 6. A Pan-European Network of Robotics DIHs for Agile Production (DIH²), Horizon 2020, EU, 2019-2023

学术服务

学术会议审稿

- IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)
- IEEE International Conference on Multimedia and Expo (ICME)

教学经历

查尔姆斯理工大学

- MPR213 Robotics and Manufacturing Automation
- LMT108 Automation Technique
- IMS020 Simulation and Visualization of Production Systems
- PPU055 Virtual Production
- IMS085 Simulation and Optimisation of Sustainable Production Systems
- PPU161 Production Systems
- PPU215 Research Methodology in Production Projects
- PPU156 Computer Aided Design

个人荣誉

国家优秀自费留学生奖学金

- 2024 年度国家优秀自费留学生奖学金 A 类优秀奖