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教育经历

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|-------------------|-------------------|
| 南方科技大学 | 2022.08 - 2027.07 |
| 博士研究生, 智能制造与机器人专业 | |
| 南方科技大学 | 2018.08 - 2022.07 |
| 工学学士, 机械工程专业 | |

PROJECTS

| | |
|---|-------------------|
| 面向机器人软体手指的基于视觉的触觉感知设计与应用 | 2020.05 - 2022.05 |
| <ul style="list-style-type: none">南方科技大学大学生创新创业训练项目获得两项专利 (CN114043507A, CN113334414A) | |
| 高速智能垃圾分拣系统 | 2020.05 - 2021.03 |
| <ul style="list-style-type: none">广东省第十三届“挑战杯”大学生创业计划大赛铜奖 | |

PUBLICATIONS

(2023) **Xudong Han**, Sheng Liu, Fang Wan* and Chaoyang Song*. "Vision-based Tactile Sensing for an Omni-adaptive Soft Finger." *IEEE International Conference on Development and Learning (ICDL)*. Macau, China, on 9-11 November 2023. (Accepted)

(2023) Xiaobo Liu#, **Xudong Han**#, Wei Hong, Fang Wan*, and Chaoyang Song*. "Proprioceptive Learning with Soft Polyhedral Networks." *The International Journal of Robotics Research*. (Under Review)

(2023) Ning Guo, **Xudong Han**, Xiaobo Liu, Shuqiao Zhong, Zhiyuan Zhou, Jian Lin, Jiansheng Dai, Fang Wan*, Chaoyang Song*. "Autoencoding a Soft Touch to Learn Grasping from On-land to Underwater." *Advanced Intelligent Systems*. (Accepted)

(2023) Xiaobo Liu, **Xudong Han**, Ning Guo, Fang Wan*, and Chaoyang Song*. "Bio-inspired Proprioceptive Touch of a Soft Finger with Inner-Finger Kinesthetic Perception." *Biomimetics*. (Under Review)

(2023) Ning Guo#, **Xudong Han**#, Shuqiao Zhong, Xiaobo Liu, Zhiyuan Zhou, Jian Lin, Fang Wan*, and Chaoyang Song*. "Visual-based Proprioceptive Soft Finger towards Shape Estimation and Touch Sensing." *IEEE International Conference on Robotics and Automation (ICRA)*. (Under Review)

(2021) Linhan Yang, **Xudong Han**, Weijie Guo, Fang Wan, Jia Pan, Chaoyang Song*. "Learning-based Optoelectronically Innervated Tactile Finger for Rigid-soft Interactive Grasping." *IEEE Robotics and Automation Letters*, 6(2), 3817-3824.

(2021) Haiyang Jiang, **Xudong Han**, Yonglin Jing, Ning Guo, Fang Wan, Chaoyang Song*. "Rigid-Soft Interactive Design of a Lobster-Inspired Finger Surface for Enhanced Grasping Underwater." *Frontiers in Robotics and AI*, 8, 787187.

(2021) Fang Wan, Xiaobo Liu, Ning Guo, **Xudong Han**, Feng Tian, Chaoyang Song*. "Visual Learning Towards Soft Robot Force Control using a 3D Metamaterial with Differential Stiffness." *Conference on Robot Learning*. London, UK, on 8-11 November 2021. PMLR, 164:1269-1278.

实践经历

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|--|-------------------|
| 南方科技大学机器人社 - 社长 | 2021.01 - 2023.08 |
| <ul style="list-style-type: none">组织队伍参加多个国家级机器人竞赛获得南方科技大学2022年优秀学生社团荣誉称号 | |
| 迈步机器人 - 暑期实习生 | 2021.07 - 2021.08 |
| <ul style="list-style-type: none">参与开发气动康复手套, 主要负责机械结构设计获得实用新型专利 (CN215021628U) | |

HONOR & AWARDS

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| 南方科技大学优秀毕业生 | 2022.06 |
| 南方科技大学优秀学生奖学金一等奖 | 2021.11 |