



NIU Xuezhhi

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EDUCATION

- Uppsala University** 2024–present
Ph.D. Student in Embedded Systems Uppsala, Sweden
- KTH Royal Institute of Technology** 2021–2023
M.Sc. Mechatronics Stockholm, Sweden
- City University of Hong Kong** 2017–2021
B.Eng. Mechanical Engineering Hong Kong SAR, China

RESEARCH INTERESTS

- Cyber-Physical Systems
- Reinforcement Learning
- Control & Dynamics

JOURNAL PUBLICATIONS

- Tan, K., **Niu, X.**, Ji, Q., Feng, L., & Törngren, M. Learning-enhanced Optimal Gait Design for a Tendon-driven Soft Quadruped Robot via Multi-fidelity Bayesian Optimization, under review at Information Sciences.
- Xu, Y., Niu, J., Xi, G., **Niu, X.**, Wang, Y., Guo, M., ... & Tian, J. (2018). TGF- β 1 resulting in differential microRNA expression in bovine granulosa cells. *Gene*, 663, 88–100.

CONFERENCE PUBLICATIONS

- Niu, X.**, Tan, K., & Feng, L.. Optimal Gait Control for a Tendon-driven Soft Quadruped Robot by Model-based Reinforcement Learning, under review at AIM/TMECH.

OTHER PUBLICATIONS

- Maser Thesis: N. Xuezhhi, Optimal Gait Control of Soft Quadruped Robot by Model-based Reinforcement Learning, Dissertation, 2023. Available: <https://www.diva-portal.org/smash/record.jsf?pid=diva2:1810127>
- HK project: EGENÄS, C., EKMAN, F., MA, C., NASER, T., **NIU, X.**, SERNELIN, A., ... & STRÖM, B. (2023). Electronically Vacuum Regulated Shut-off Valve for Milking System. Available: <https://www.diva-portal.org/smash/record.jsf?pid=diva2:1738909>

ACADEMIC ACTIVITIES

- Teaching assistant for master level courses at KTH (MF2007) and Uppsala (1DT106)

AWARDS & ACHIEVEMENTS

- CN patent Grant (CN 113675454 A), City University of Hong Kong 2020.9
- Talent Development Scholarship, Hong Kong SAR, China 2020.6
- CN patent Grant (CN 14180645 A), City University of Hong Kong 2020.6
- Second Prize in National Finals of the Challenge Cup Competition, Beijing, China 2019.11
- Silver Prize in National Finals of Internet + Competition, Hangzhou, China 2019.10
- Second Prize in HK University Student Innovation and Entrepreneurship Competition 2019.4