NIU Xuezhi

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Uppsala, Sweden

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.

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 TMECH/AIM.

Other Publications

• Maser Thesis: N. Xuezhi, 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*