NIU Xuezhi

Google Scholar
Personal Page
LinkedIn

+46-0734697970
xuezhi.niu@it.uu.se
n7729697@gmail.com
GitHub
Uppsala, Sweden

EDUCATION

- **Uppsala University**
  Ph.D. Student in Embedded Systems
  2024–present
  Uppsala, Sweden

- **KTH Royal Institute of Technology**
  M.Sc. Mechatronics
  2021-2023
  Stockholm, Sweden

- **City University of Hong Kong**
  B.Eng. Mechanical Engineering
  2017-2021
  Hong Kong SAR, China

RESEARCH INTERESTS

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

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 Applied Soft Computing.

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 Control Engineering Practice.

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, 1DT108, 1DT054, 1RT495)

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*