**Development of Vibration-Driven Neuromechanics in a Spider-Inspired Robot**

1. Abstract
2. Introduction
   1. Neuromechanics
   2. Biological Insight & Motivation
   3. Related Work
   4. *Concept*
   5. Contribution
3. Results
   1. Spider-Inspired Biomechanical Legs
   2. Vibration Signal Regression
      * Different surface matrtials
      * Different heights
   3. CPG+ B´ezier+RL Gait Optimization
   4. Moving Vibration-Source Tracking
   5. Mixed‑Frequency Vibration-Source Tracking
4. Discussion
5. Method
   1. Robot prototype
   2. Sensor design and fabrication
   3. Signal processing
   4. Gaits IK
   5. CPG+Bezier development
   6. RL algorithm
   7. Experimental setup