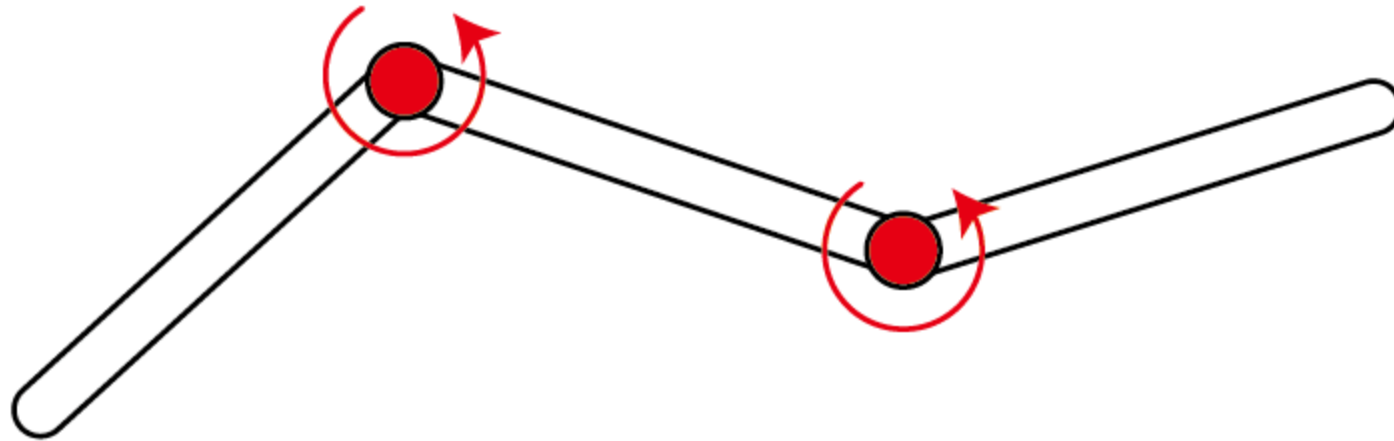


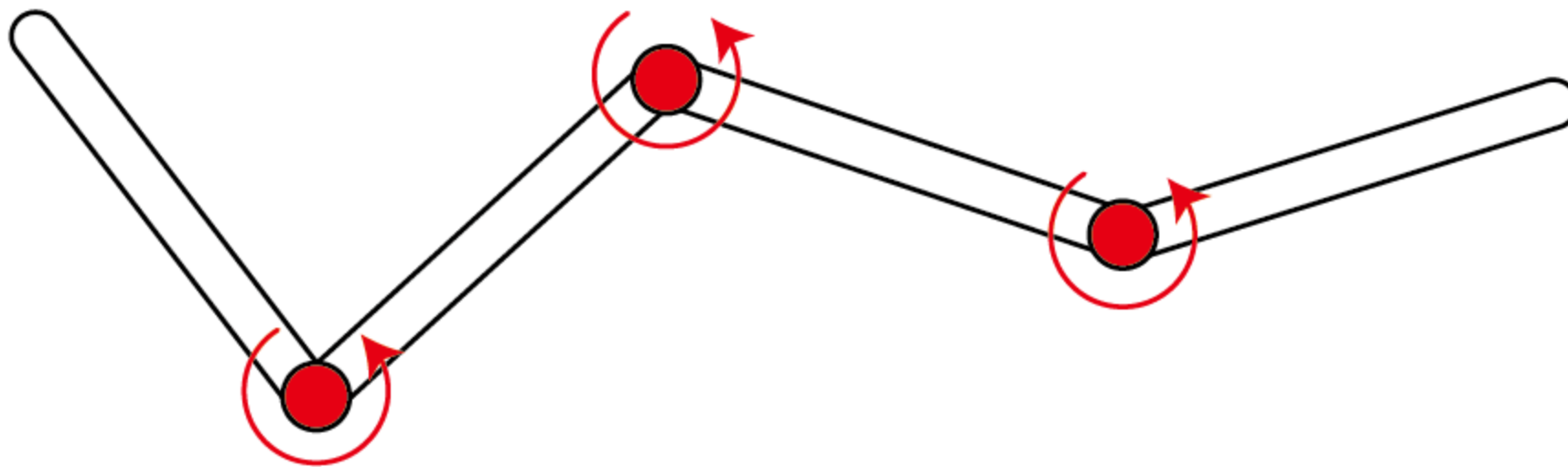
# 3-link swimmer morphology modification

Tianyu Wang

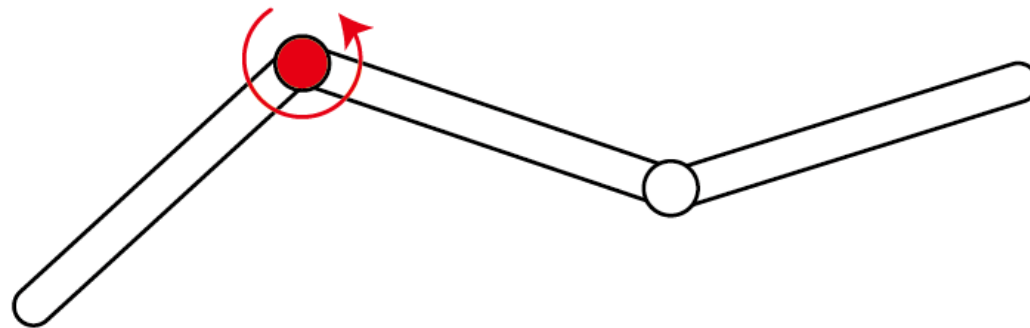
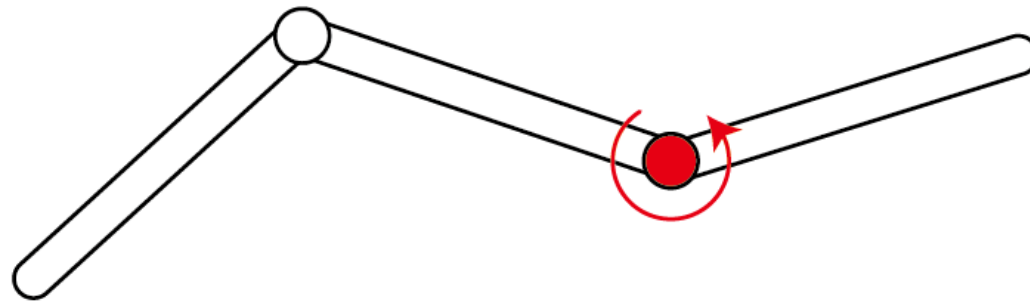
# Basic 3-link swimmer



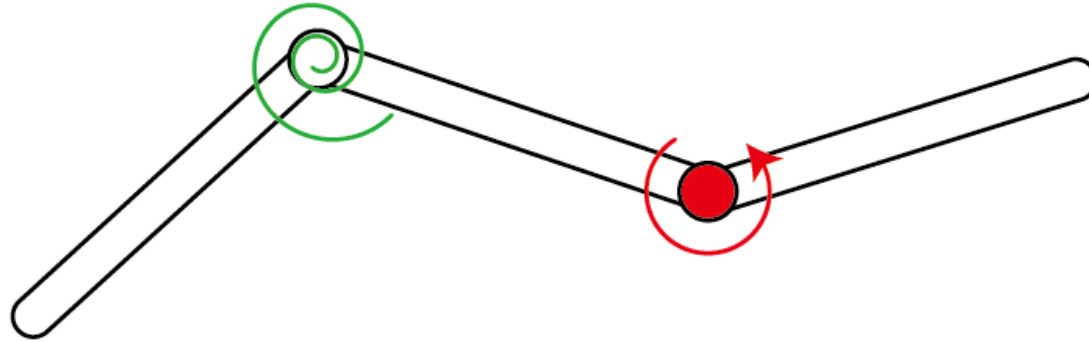
# 1. Link number



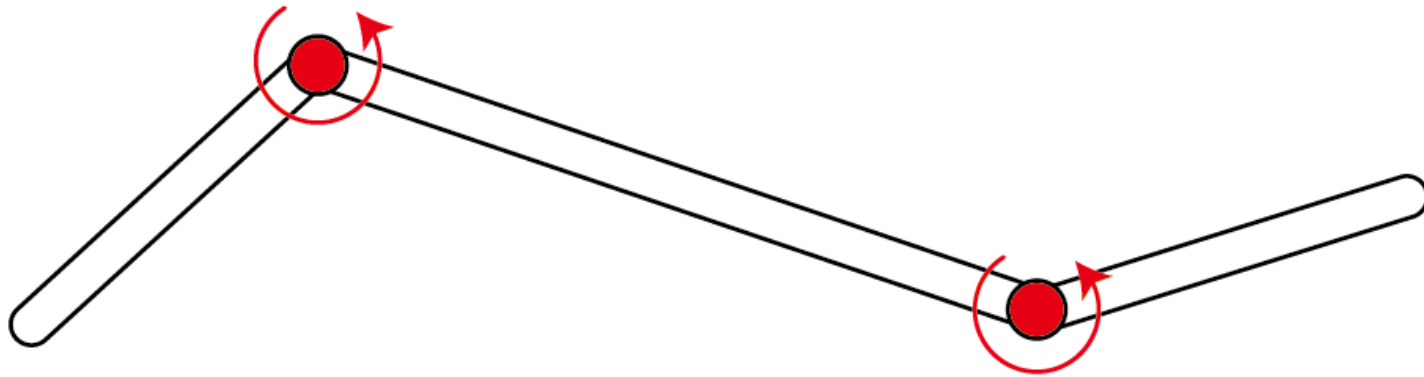
## 2. Passive joint



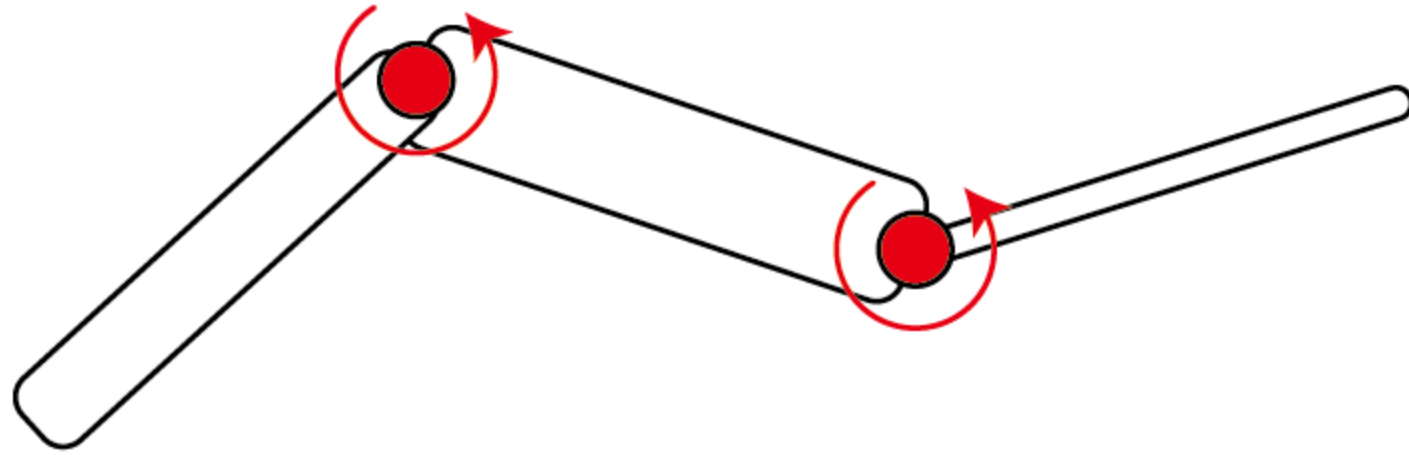
## 2. Passive joint



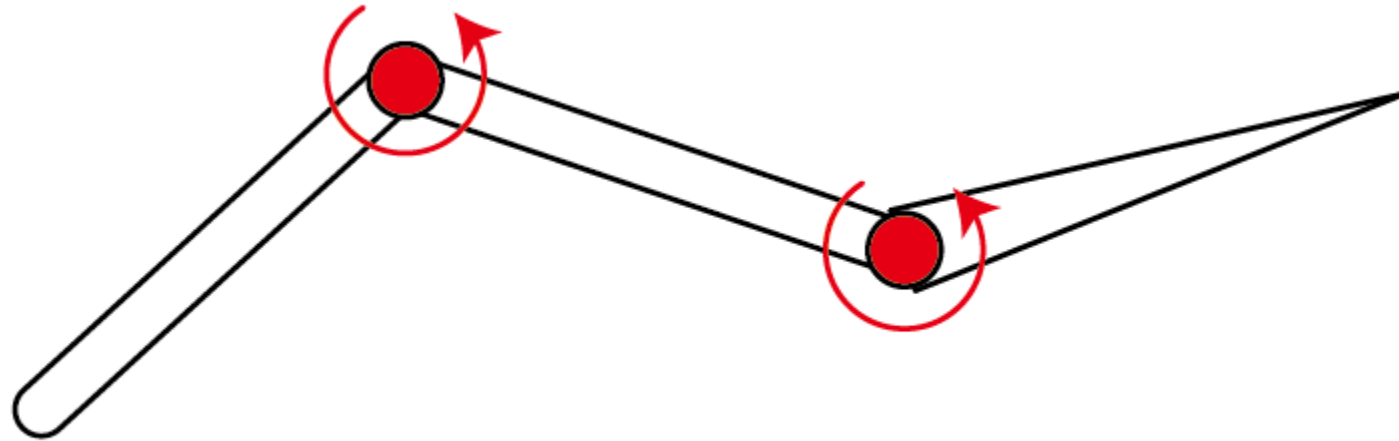
### 3. Link length



## 4. Link width

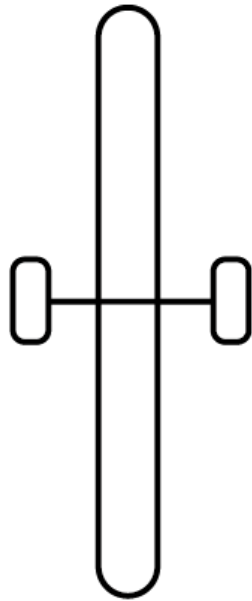


## 5. Link geometry (granular media)





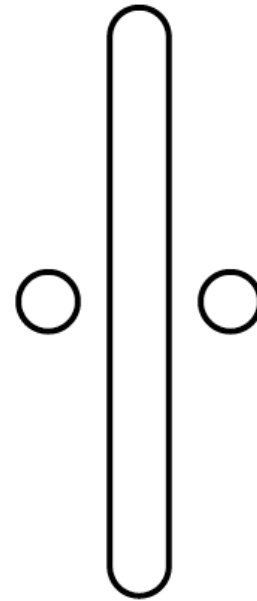
## 6. Contact surfaces modification



Wheels

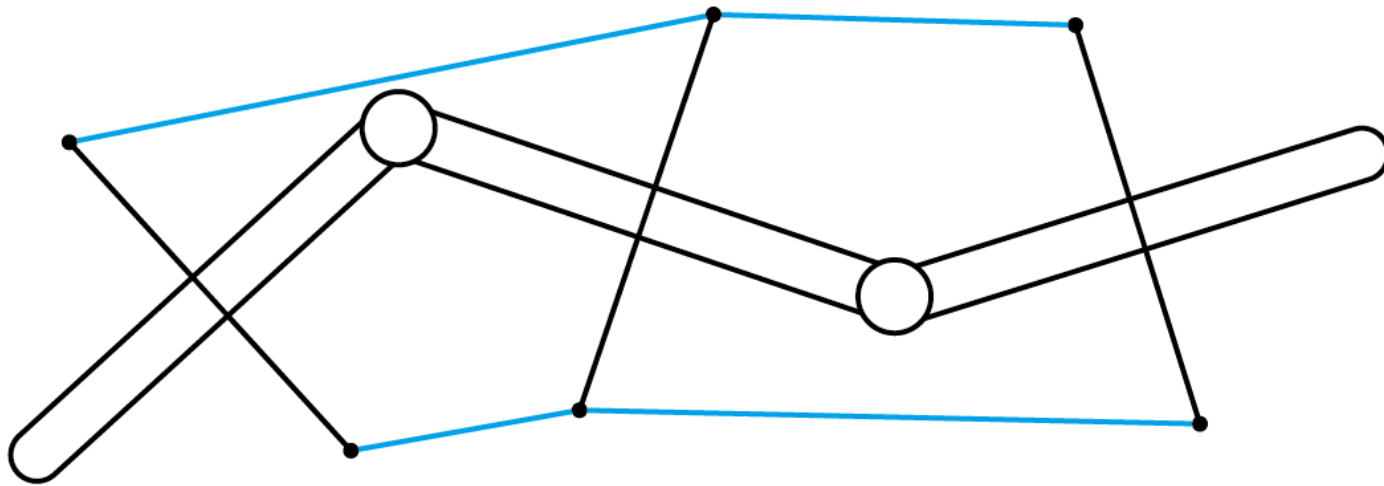


Scales



Legs

## 7. Actuation mechanism



# 8. Environments



Sand

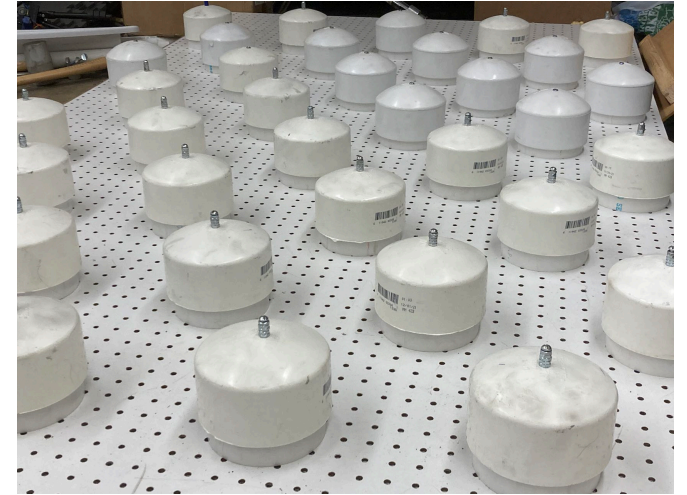


Poppy seeds



bb balls

Granular media



Obstacle terrain