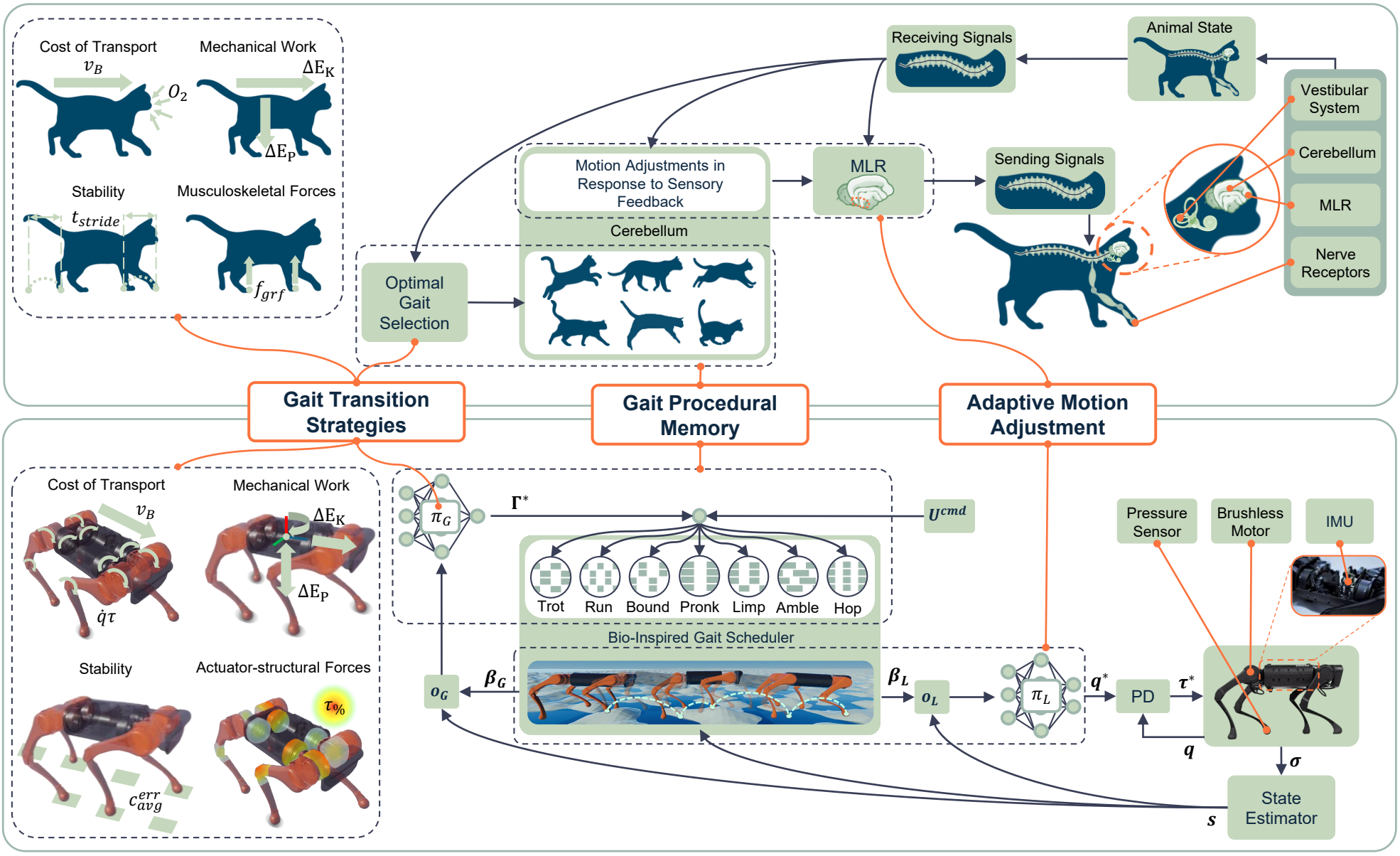
Cost of Transport
v_B
O_2
Mechanical Work
ΔE_K
ΔE_P
Stability
t_{stride}
Musculoskeletal Forces
f_{grf}
Receiving Signals
Animal State
Vestibular System
Cerebellum
MLR
Nerve Receptors
Motion Adjustments in Response to Sensory Feedback
MLR
Sending Signals
Cerebellum
Optimal Gait Selection
Gait Transition Strategies
Gait Procedural Memory
Adaptive Motion Adjustment
Cost of Transport
v_B
$\dot{q}\tau$
Mechanical Work
ΔE_K
ΔE_P
Stability
c_{avg}^{err}
Actuator-structural Forces
$\tau_{\%}$
π_G
Γ^*
U^{cmd}
Trot
Run
Bound
Pronk
Limp
Amble
Hop
Bio-Inspired Gait Scheduler
o_G
β_G
β_L
o_L
π_L
q^*
PD
τ^*
q
σ
s
State Estimator
Pressure Sensor
Brushless Motor
IMU