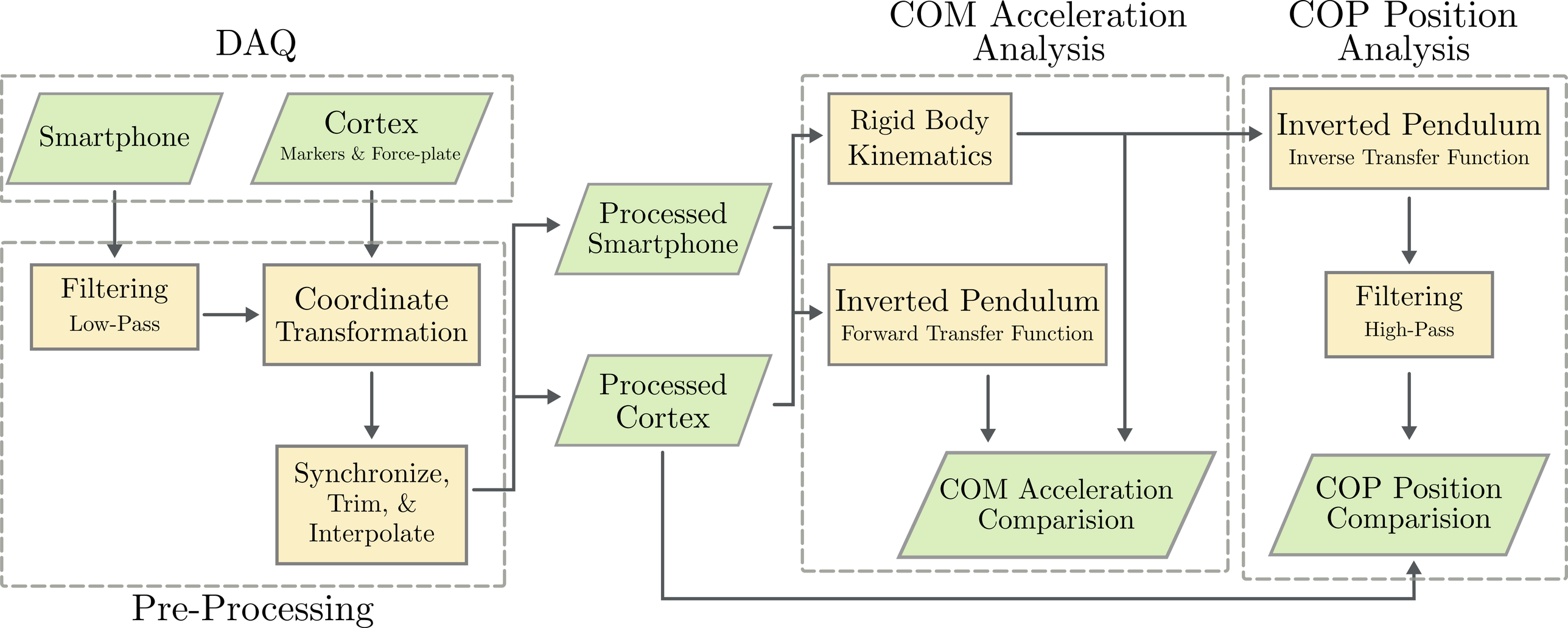

DAQ
Smartphone
Cortex
Markers & Force-plate
Filtering
Low-Pass
Coordinate
Transformation
Synchronize,
Trim, &
Interpolate
Pre-Processing
Processed
Smartphone
Processed
Cortex
COM Acceleration
Analysis
Rigid Body
Kinematics
Inverted Pendulum
Forward Transfer Function
COM Acceleration
Comparision
COP Position
Analysis
Inverted Pendulum
Inverse Transfer Function
Filtering
High-Pass
COP Position
Comparision