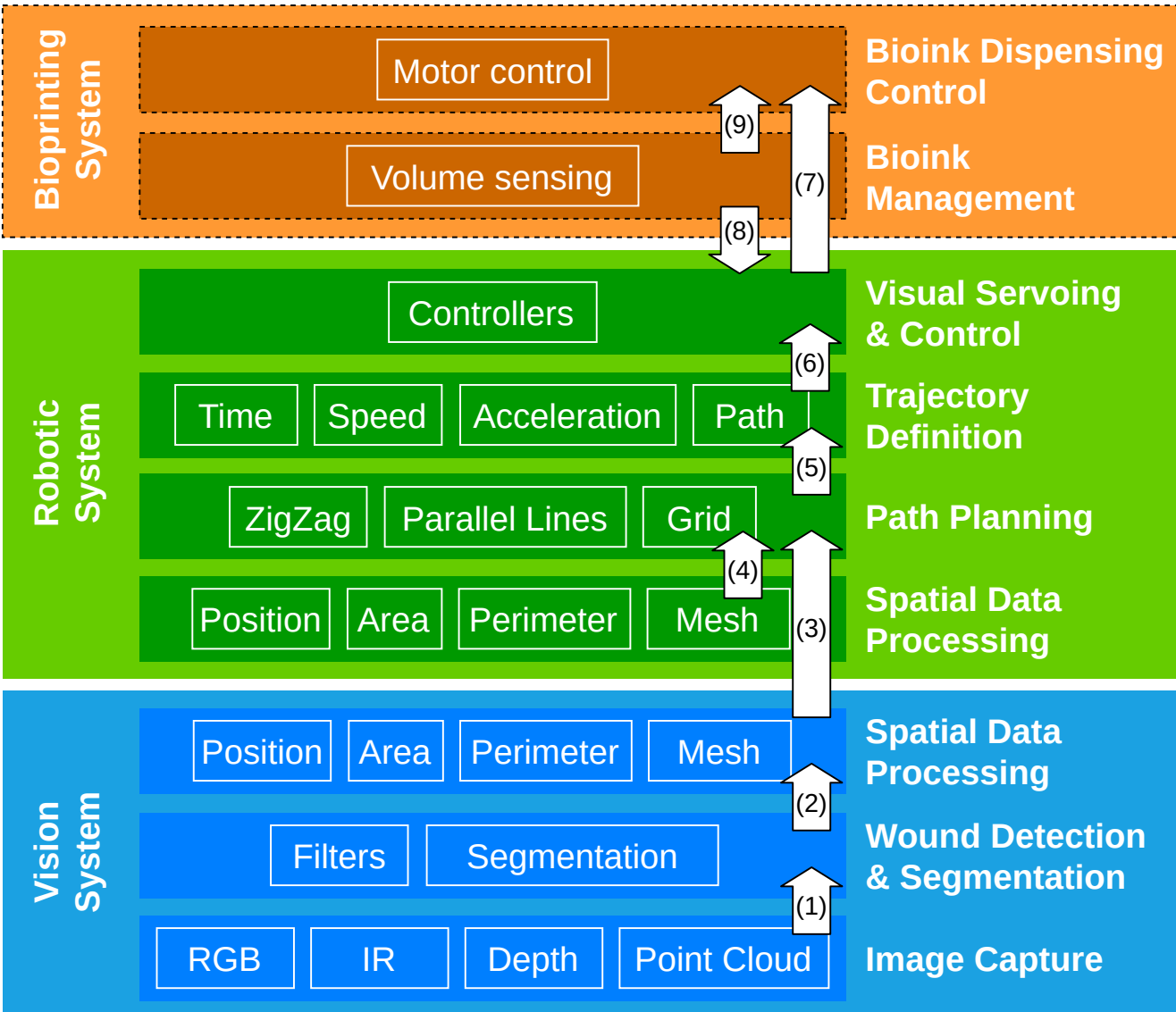


Layered Architecture



Data Exchanged

- (1) RGB image (3 channels)
IR image (1 channel)
Depth image (1 channel)
Point cloud (3D points)
- (2) Wound contours (2D points)
Point cloud (3D points)
- (3) Wound contours (2D points)
Wound contours region (3D poses)
Camera to Robot transform (4x4 matrix)
- (4) Wound contours (2D points)
Wound contours region (3D poses)
- (5) Wound filling path (3D poses)
Bioprinting actions (commands)
- (6) Wound filling trajectory (3D poses, bioprinting actions)
- (7) Bioprinting actions (commands)
- (8) Bioink volume state
- (9) Bioprinting STOP command