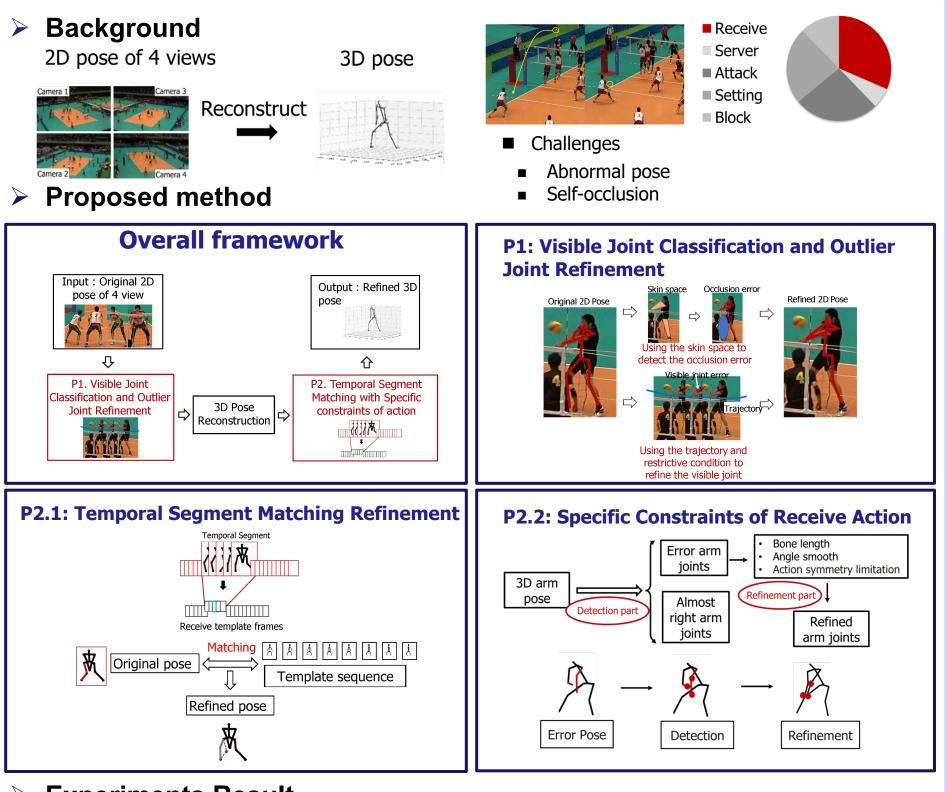
Visible Joint Classification and Temporal Segment Matching with Specific Constraints of Action based **3D Pose Refinement for Volleyball Receive Analysis**

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Experiments Result >

Item		Without refinement (Accuracy %)	P1 (Accuracy %)	P1+P2.1 (Accuracy %)	P1+P2.1+P2.2 (Accuracy %)
Error range [%] @ 30mm	Upper body	83.43	91.88	91.88	91.94
	Total body	90.83	95.33	95.33	95.36
Error range [%] @ 50mm	Upper body	87.81	94.69	94.87	95.01
	Total body	93.17	96.83	96.92	96.99
Error range [%] @ 70mm	Upper body	92.50	96.25	97.01	97.27
	Total body	96.01	98.01	98.43	98.55

Conclusion The proposed method achieves that the percentage of correct key points in 70mm is up to 98.5% and in 30mm is up to 95.4%.



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