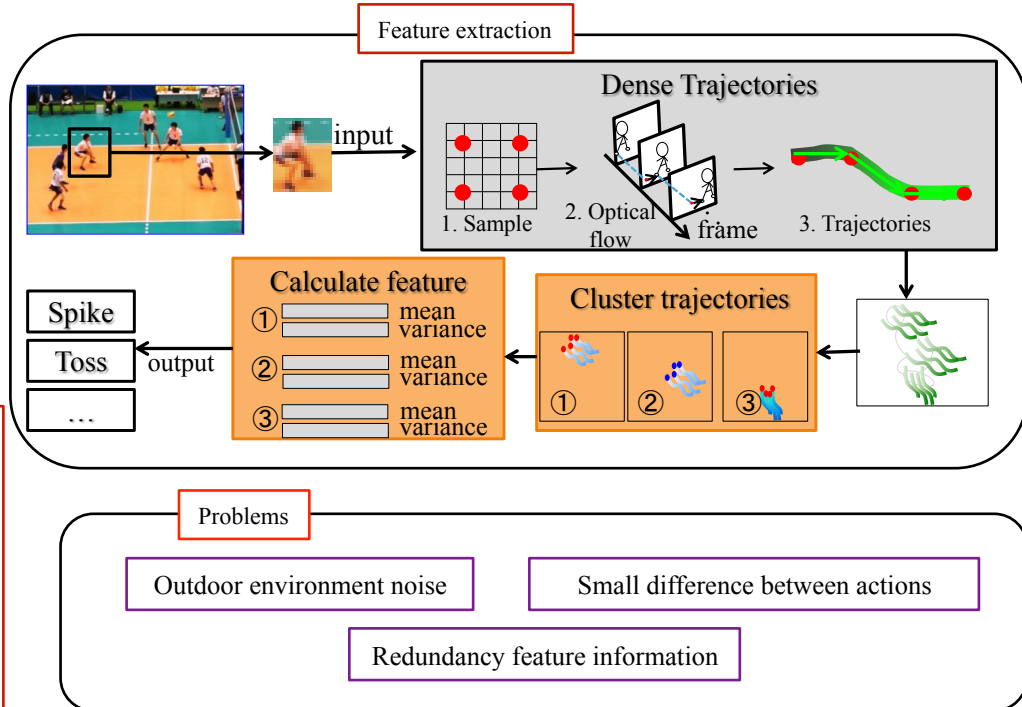
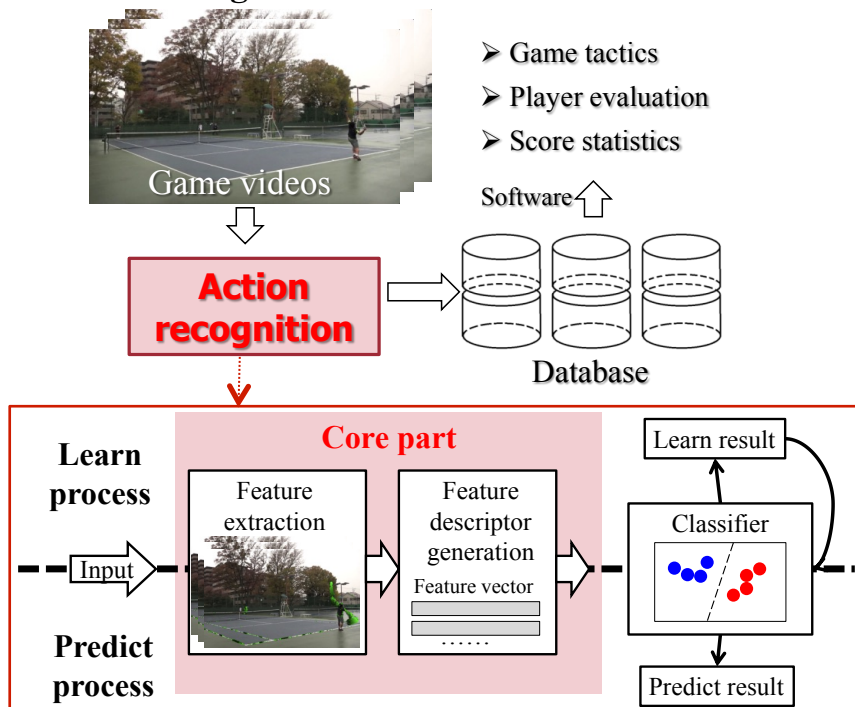


Relative Position Feature Extraction and Multi-classifier Combination based Tennis Action Recognition

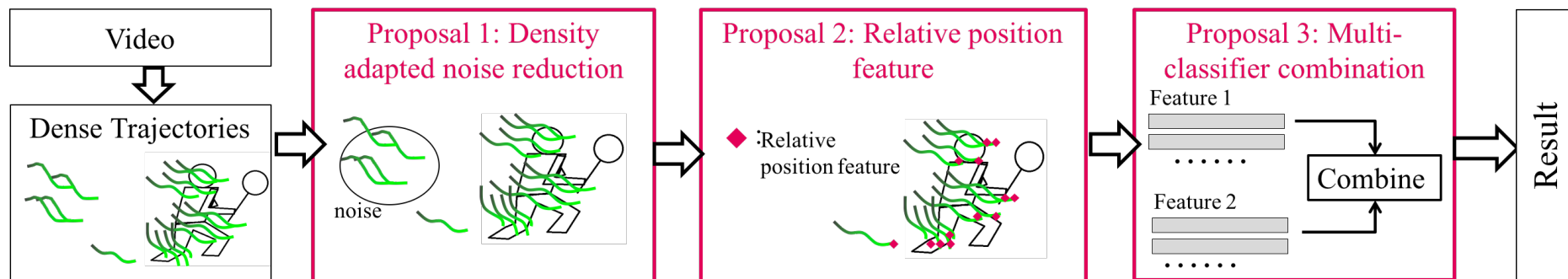
修士課程卒業 馬子涵

Background

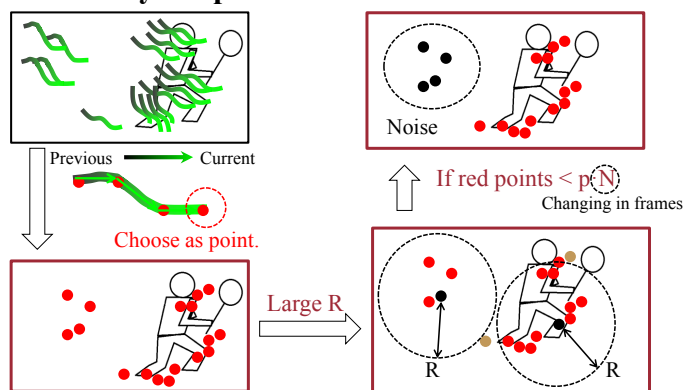


Proposal

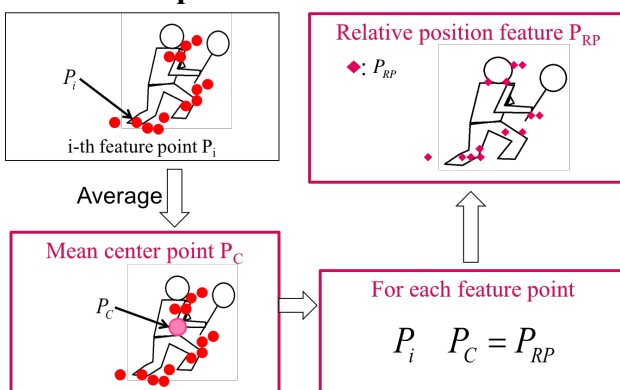
Framework



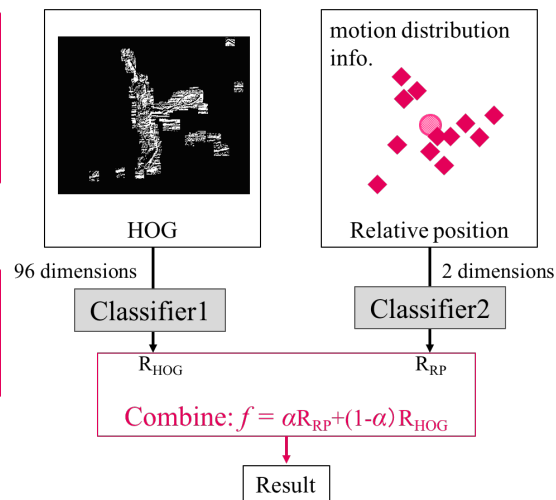
Density adapted noise reduction



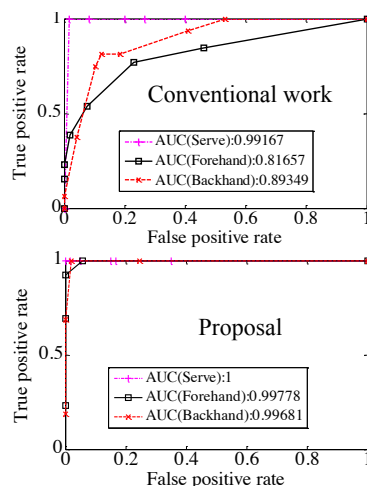
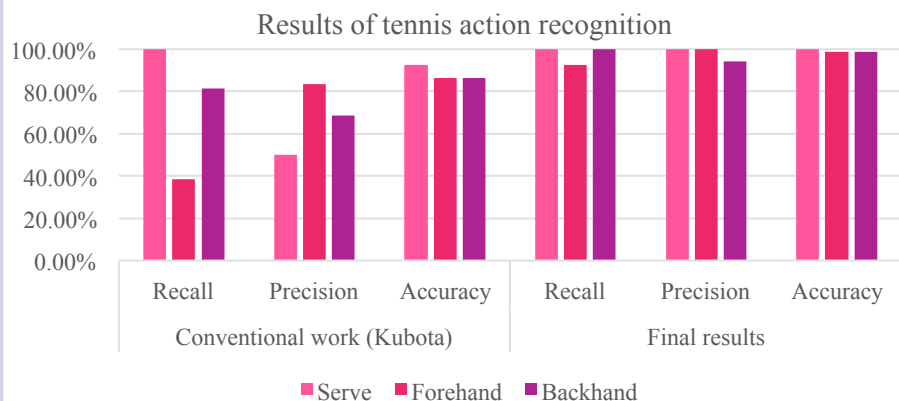
Relative position feature



Multi-classifier combination



Experiment



Conclusion

Our research uses three proposals and finally reaches a success rate of tennis action recognition all above 98%, comparing with 89% average success rate of the conventional work.

Publication

Zihan Ma, Shuyi Huang, Masaaki Honda, Takeshi Ikenaga, "Relative Position Feature based Dense Trajectories with Density Adapted Noise Reduction for Tennis Player Action Recognition", *International Technical Conference on Circuits/Systems, Computers and Communications (ITC-CSCC 2016)*, July 2016.

