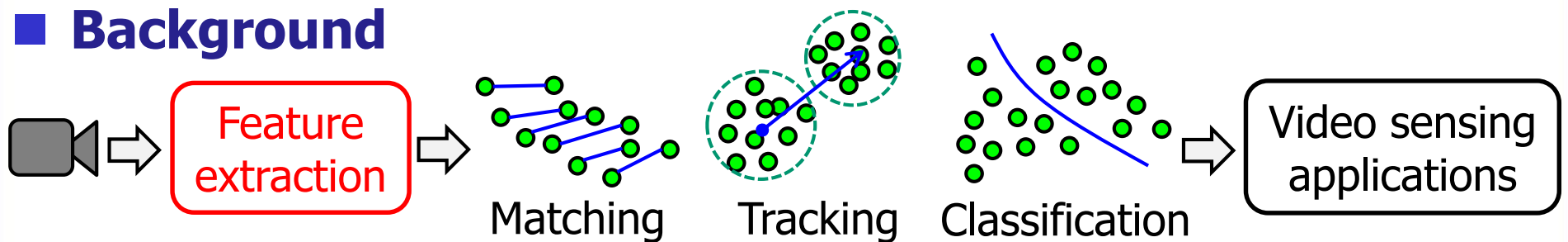


Hierarchical Classifier Based Feature Extraction for Video Sensing Systems

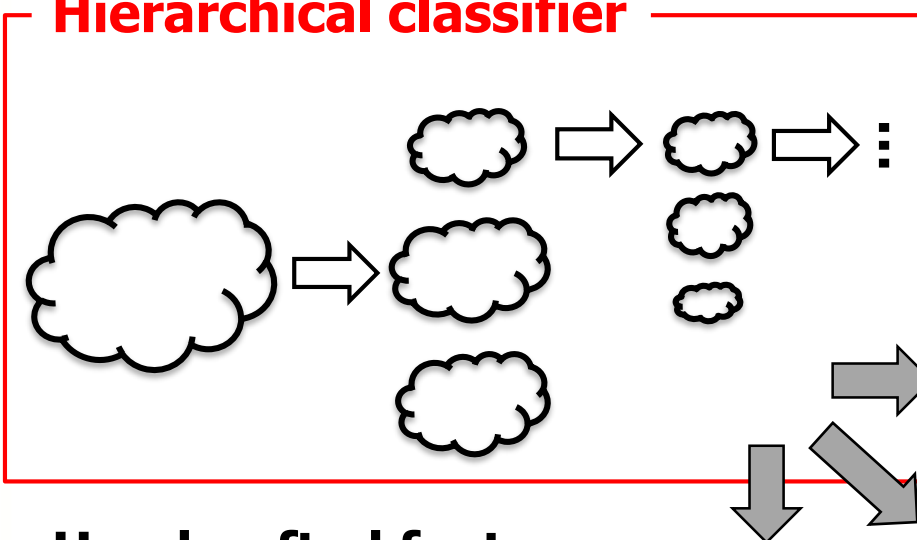
杜松林 博士課程修了

Background

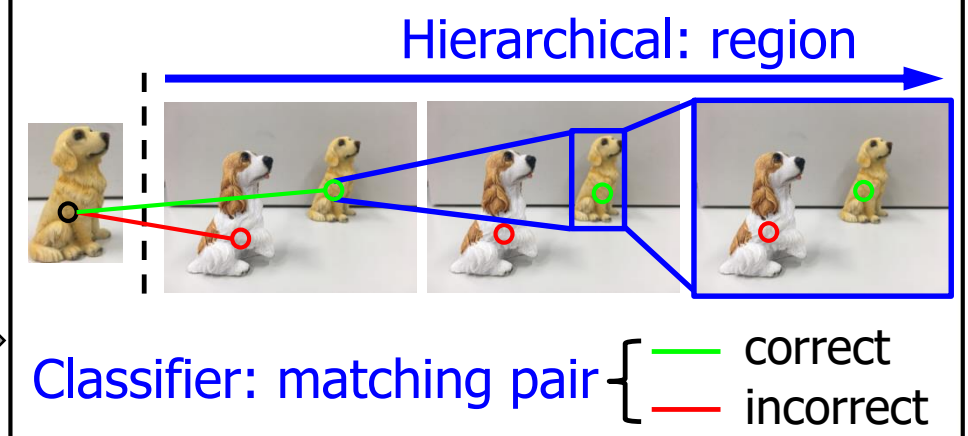


Proposals

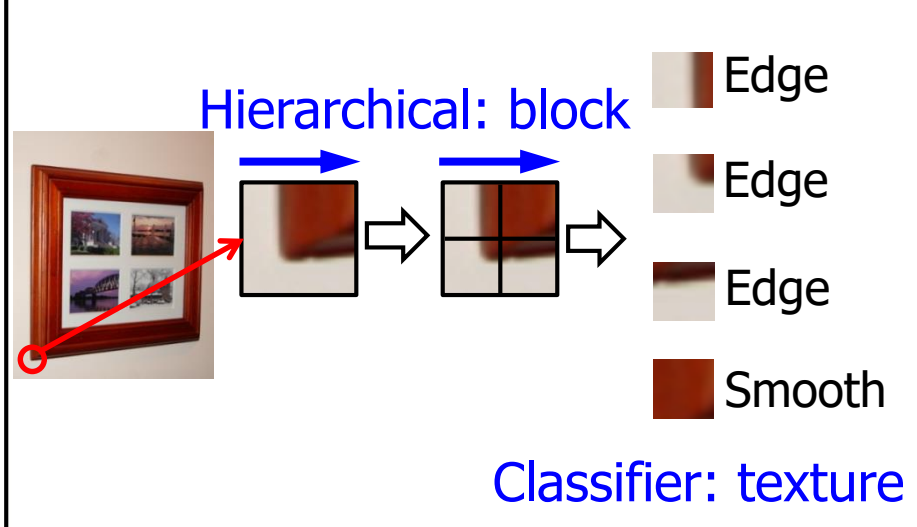
Hierarchical classifier



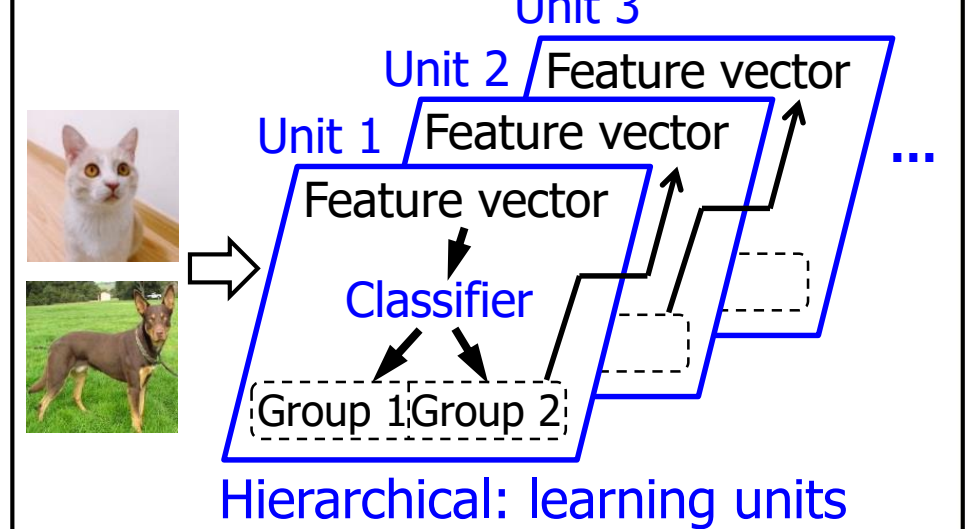
False feature removal



Handcrafted feature



Learned feature



Experimental results

	Conventional work	Performance improvement
Handcrafted feature	ORB	3%
Learned feature	Autoencoder, sparse filt.	1%, 5%
False feature removal	RANSAC, GMS	31%, 29%

Conclusion

The proposals are suitable to various application scenarios, handle more challenging scenarios, and save human labors.

