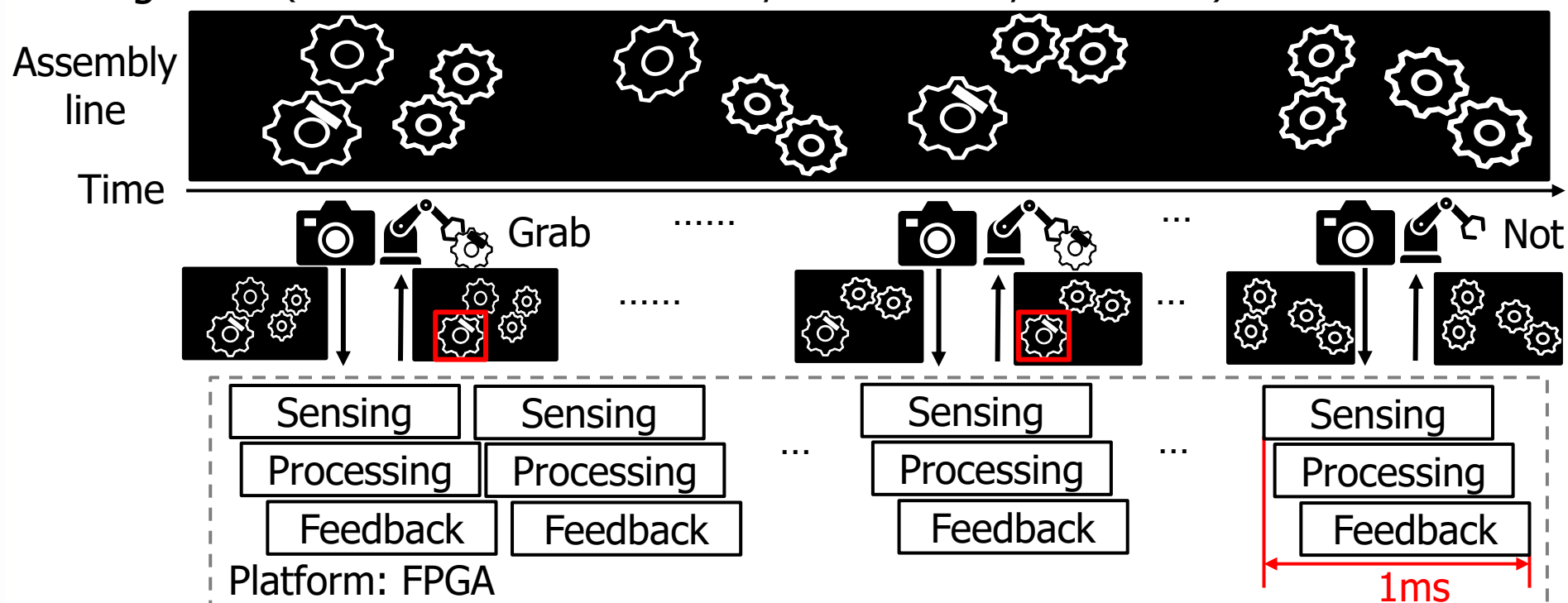


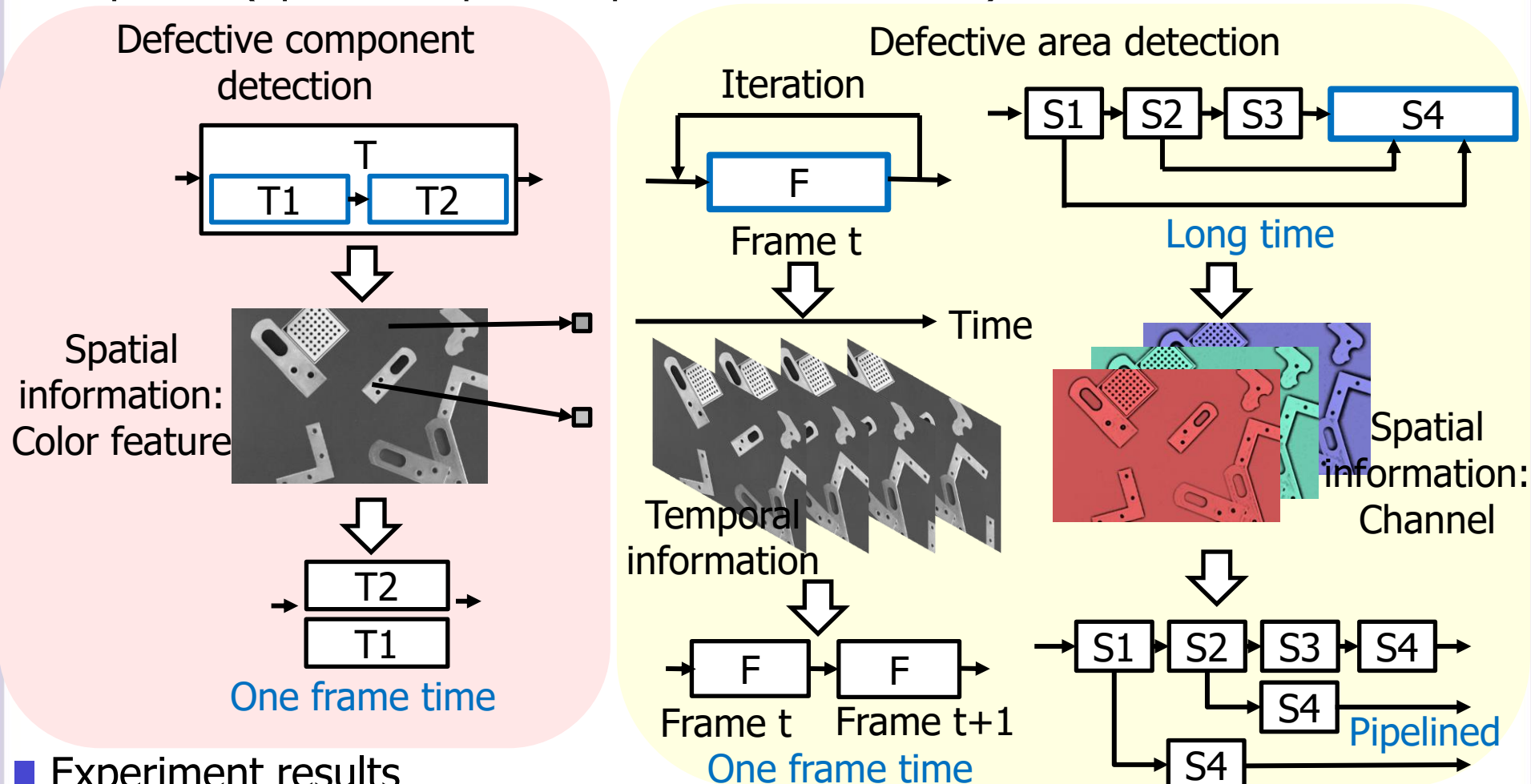
# Spatio-Temporal Separable Architecture Based Ultra-Low Delay Visual Defect Detection System for Factory Automation

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## ■ Background (1-ms visual defect detection system for factory automation)



## ■ Proposals (Spatio-temporal separable architecture)



## ■ Experiment results

- Defective component detection: 80.18% F-score, 0.9476 ms/frame processing delay
- Defective area detection: comparable to software-oriented algorithms, 0.985 ms/frame processing delay for rule-based method, 0.947 ms/frame for learning based

## ■ Conclusion

The proposals constructs a highly efficient factory automation system and extend to robotics applications.

