Abstract—Consumer electronic products are increasingly becoming more open and flexible, which is achieved by scalable and re-used software components. Important features in many of those products are provided via video components. Since these components have fluctuating resource usage, run-time resource-prediction strategies are required to enable cost-effective resource allocations. In this paper, we propose a novel method to identify resource-usage modes for video components.

Research question
• How to detect modes in utilization profiles?
• Are mode-based reservations cost-efficient?

Research contributions
• State-based and mode-based [1] utilization
• Resource-usage modes detection
• Modes detection accuracy

References

Visual Context Modeling