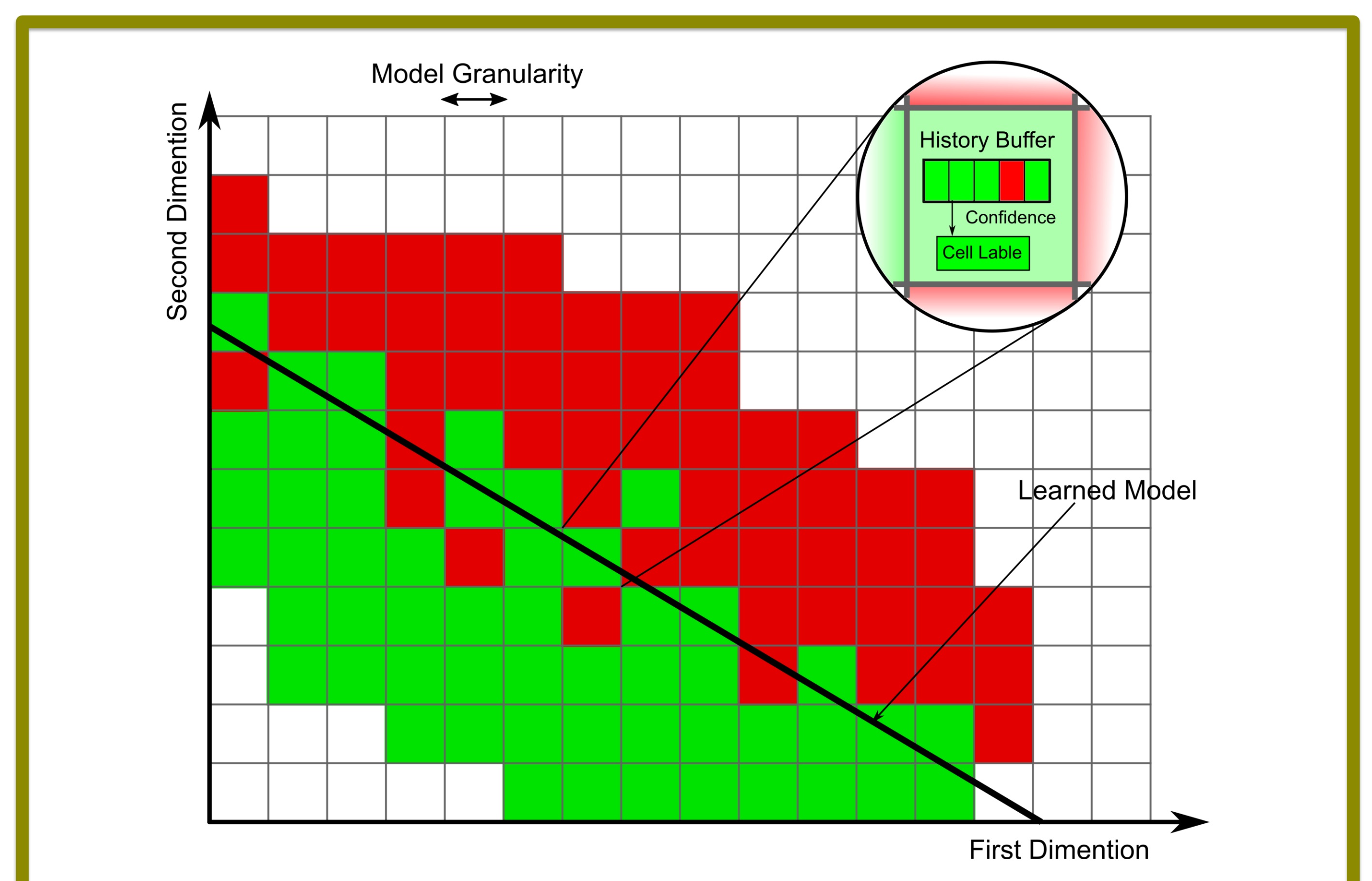
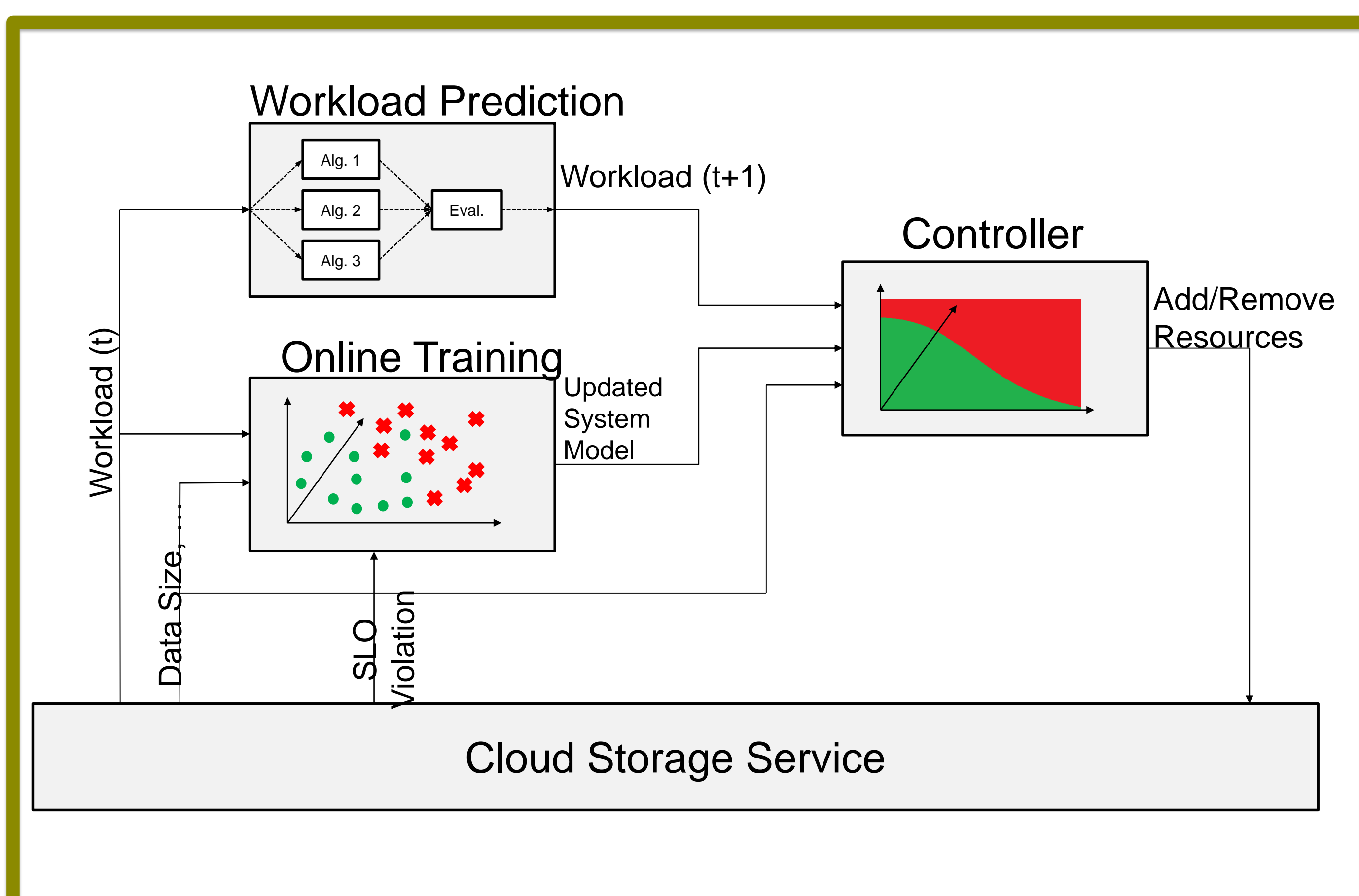


Self-Trained Proactive Elasticity Manager for Cloud-Based Storage Services

- Elastic provisioning allocates resources **dynamically** in response to changes in workload
- Minimizes** the service provisioning cost while **maintaining** the service level objectives
- Controller needs to be **trained** either online or offline before making accurate scaling decisions
- Training process involves **significant** amount of work, especially when the model has many **dimensions** and the training granularity is small
- Online ElastMan **automatically** trains and **evolves** itself while serving the workload
- Prototype** implementation in Apache Cassandra



Evaluation Results

