

# Framework for behavioral analytics in Generative Policy Management Systems



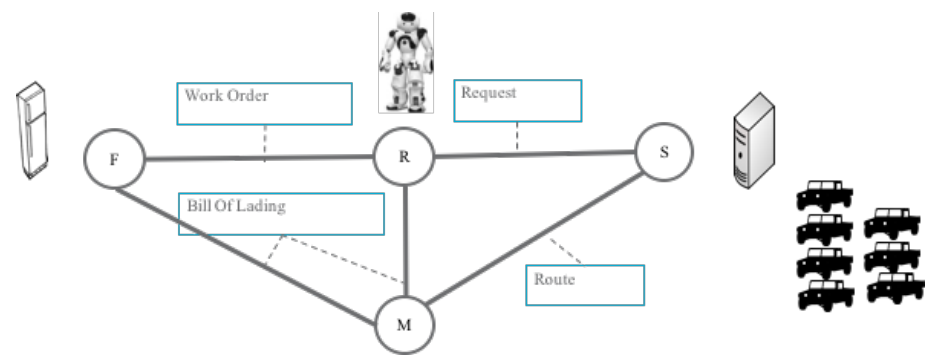
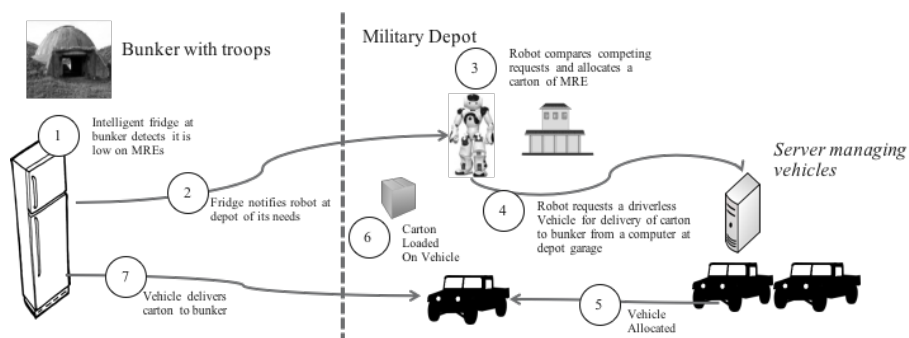
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## Approach

Investigate how **Anomaly Detection** (deviation from commonly observed behavior) can be used to generate new **Constraint(s)** on “future” autonomous systems behaviors

In order to apply behavioral analytics, we need to understand the normal and usual expected behavior in any link on the interaction graph

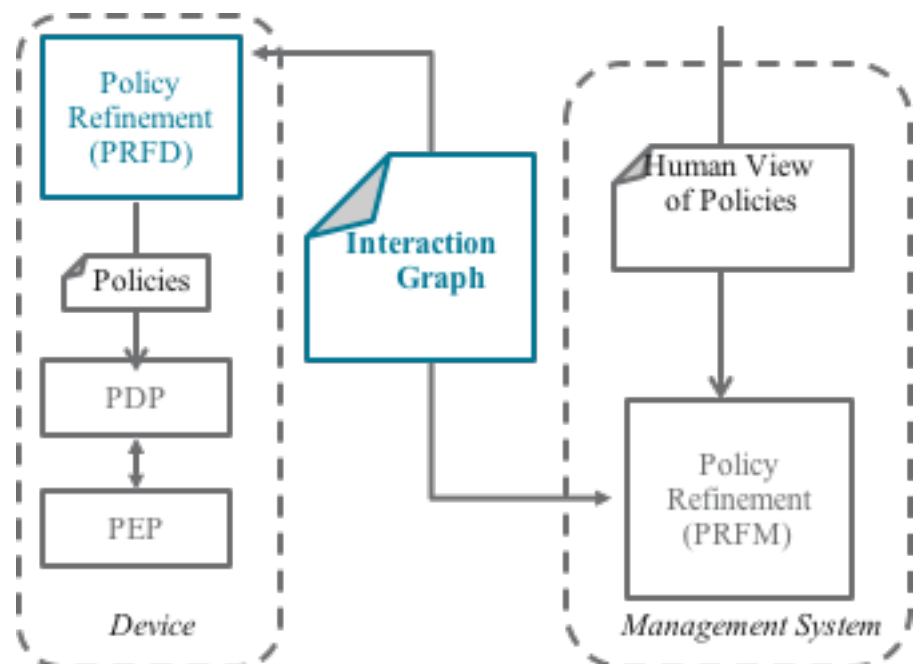
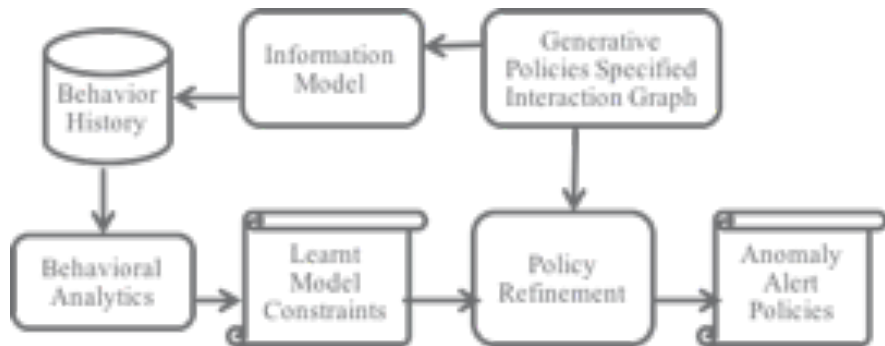
## Scenario



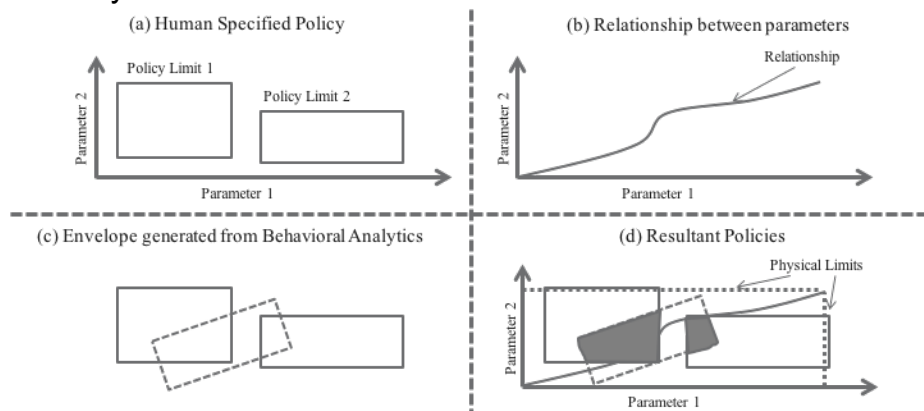
Building autonomous systems where the knowledge is extracted from a narrow operational context and encoded as a constraint that can apply to more general situations

## Framework for Generative Constraints

Extend the model for generative policies so that it can benefit from past behavior and experiences of different devices in the same role



The newly generated policy defines a constraint based on the device's own parameters and serves as a long term collective memory for all devices within similar classification



**Conclusion: Behavioral analytics provides an approach to generate a tighter bound on generated Policies**