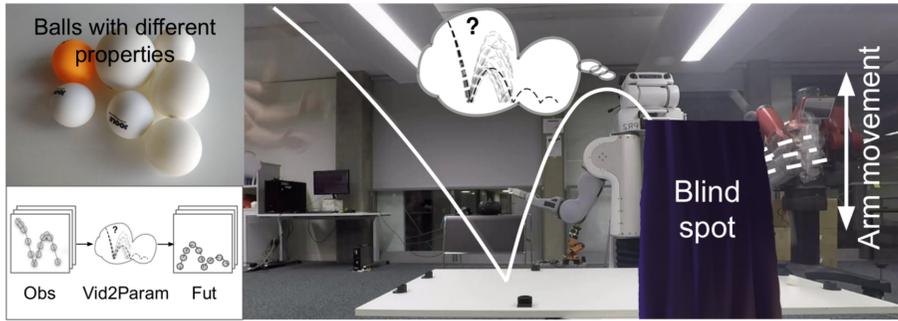
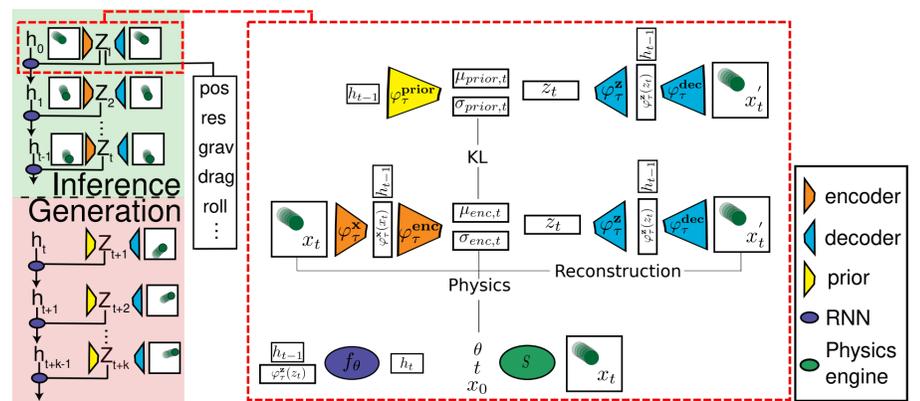


Introduction

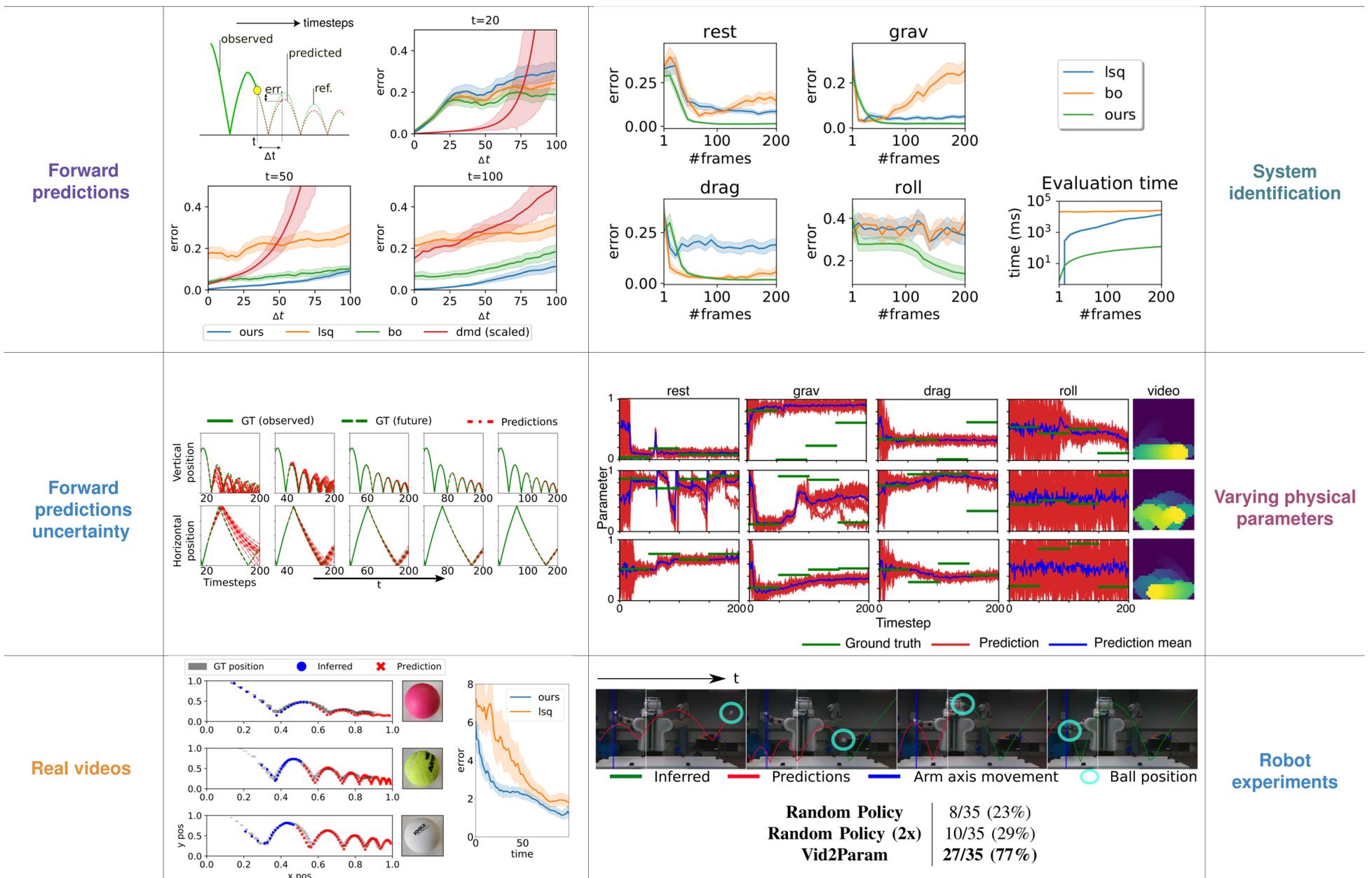


We are interested in reasoning about the **dynamics** in an environment, by using a **single video stream as a sensory input**.

Methodology



Experiments & Results



Conclusion

- Identification of multiple entangled physical parameters is challenging -> Our method can perform accurate hybrid system identification
- Accumulation of error in forward predictions -> We outperform traditional baselines
- Uncertainty estimates -> Detecting varying physical parameters and their associated uncertainty
- Sim to Real gap -> Our method scales well to real videos
- Speed challenges in robotics experiments -> We are able to stop an unknown bouncing ball, even with occlusions present