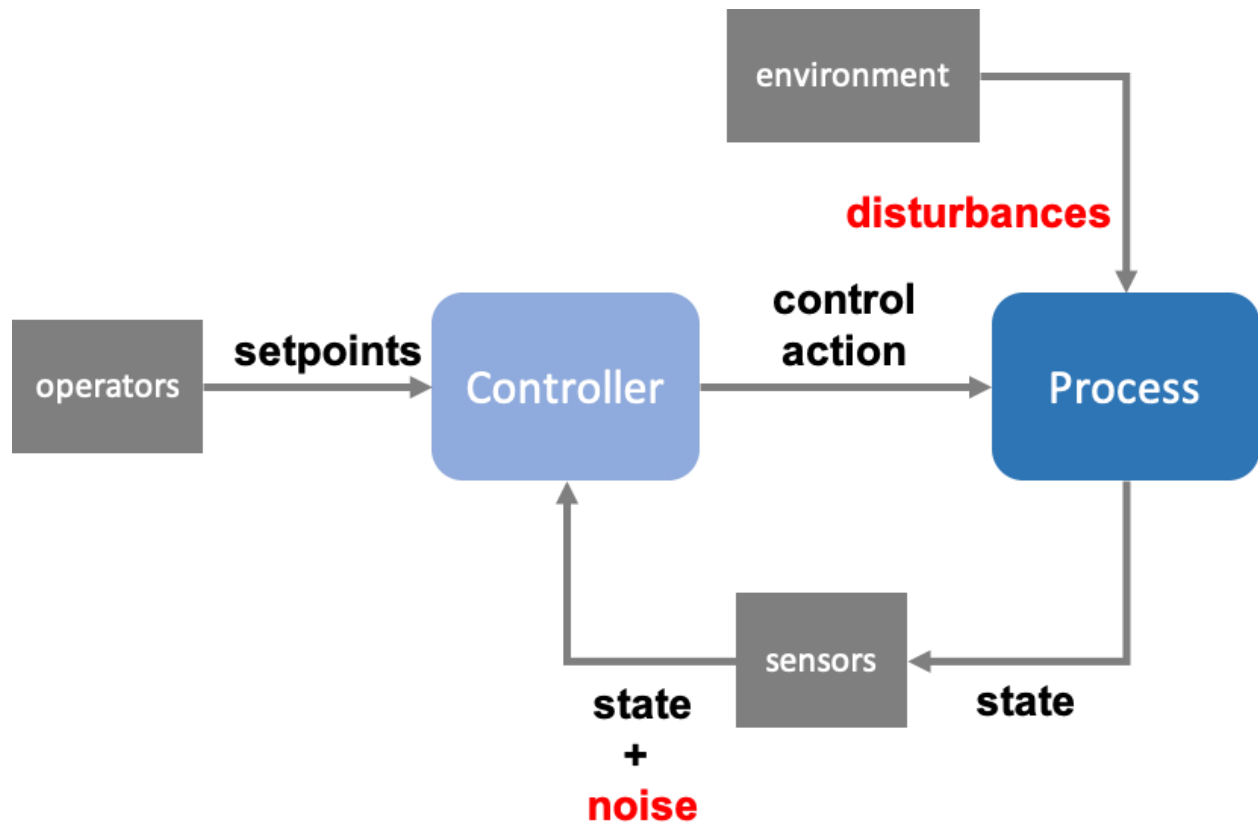


Process control

Diagram and information from <https://towardsdatascience.com/ai-for-industrial-process-control-intro-to-control-strategies-part-1-b855fb6df61d>



Controllers use these measurements to produce control actions (i.e. open/close valves, turn pumps on/off) in real-time. A controller can be classified as either **reactive** or **predictive**. Control actions in a reactive control system are based only on current or past states. Predictive controllers use predictions of the future state of the process to generate control actions, often employing some form of mathematical **optimization** and **simulation model** of the system.