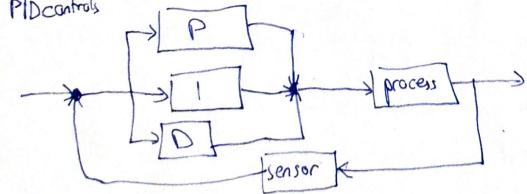


Gleorning at un algo qui ve upprende la valeur d'une action - : scalabilité (don't scale to high-dimensional state la ction pairs) Solution: multi agent RL: split the env. agents collaborate et deep a-learning > Kinematics; accometric description of motion in space -) Knetics (ordenamics): describe the laws of the causes of motion Holonomic constraints Non holonomic constraints -> Constrainty position (Config) space ) constraint velocity space (i.e. the derivative of position) > can freely move in any directions I cannot freely move in any direction Scanfrollable degrees of freedom equal the -scantrollable degrees of freedom less than the total degrees of friedom > A constraint is defined witx, 4,7)=0 I constraint cannot be defined as flx, y, z 0 ex: a 3D-particle inwhich z=0 Crample: car Kinematics of a rigid body Strigid body refor to an infinite collection of small mass points rigidly connected closed loop controls disturbance Controller Sasics
open-Loop control

disturbance (Sensor Esensor ) cantroller > process > require precise knowledge of the plan and the influence factors so the controlled variable > No feedbach us out the controlled variable
> cannot handle unknown disturbance, resulting in drifty > this is what is used for controlling a can PIDcantrols



P: proportional: the Pelement alone leads to overshooting/oscillation 1: integral; corrects residual errors by integrating parteror measurements D: derivative: alleviates oscillation by introducing a damping behavior