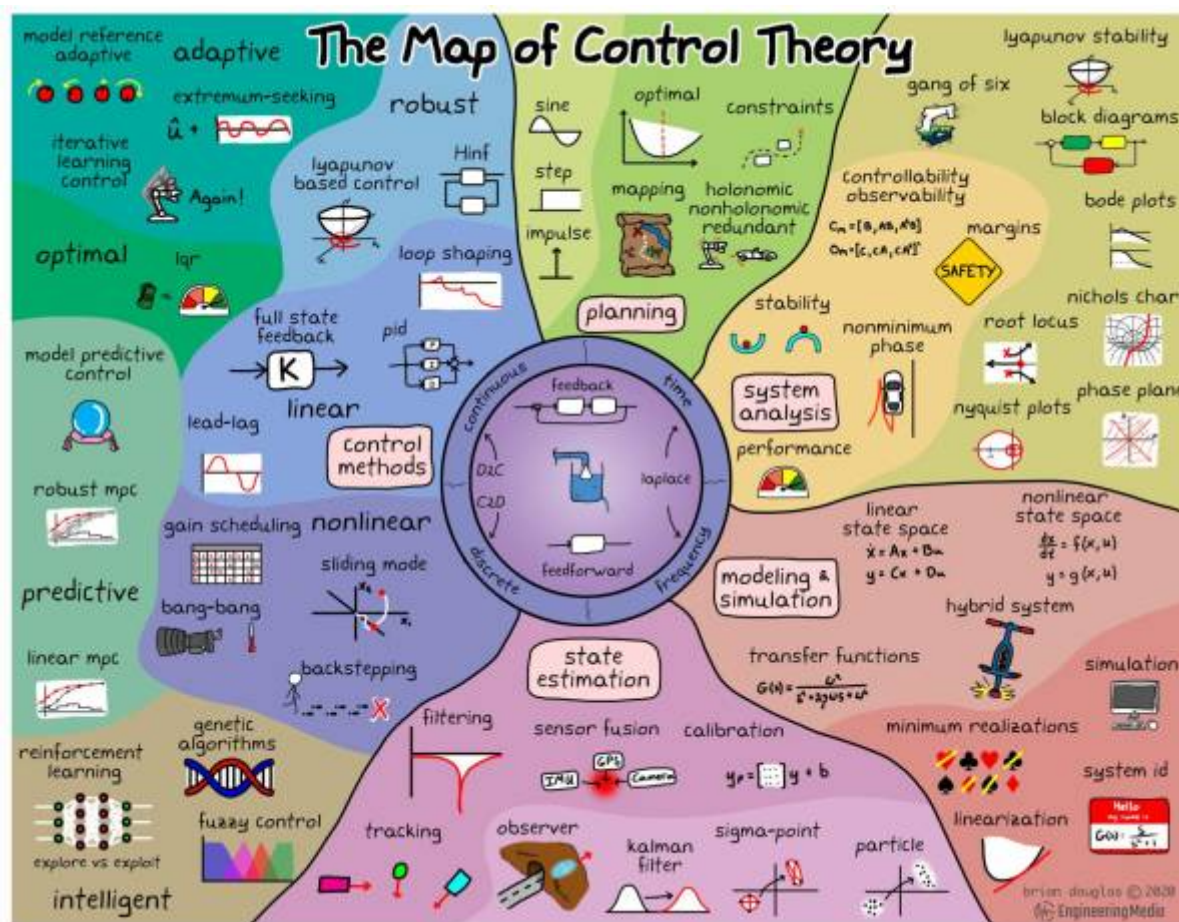


# EMRP2022

## Closed loop control, PID

### PID Control Theory

[https://www.youtube.com/watch?v=wkfEZmsQqiA&list=PLn8PRpmsu08pQBjxYFXSsODEF3Jqmm-y&a\\_b\\_channel=MATLAB](https://www.youtube.com/watch?v=wkfEZmsQqiA&list=PLn8PRpmsu08pQBjxYFXSsODEF3Jqmm-y&a_b_channel=MATLAB)



<https://engineeringmedia.com/map-of-control> Fig. 1

### Inverted Pendulum with PID

=Optimal control of inverted pendulum system using PID controller, LQR and MPC=

<https://iopscience.iop.org/article/10.1088/1757-899X/263/5/052007/pdf>

=Stabilising an Inverted Pendulum Controller with PID controller=

[https://www.matec-conferences.org/articles/mateconf/pdf/2018/11/mateconf\\_eureca2018\\_02009.pdf](https://www.matec-conferences.org/articles/mateconf/pdf/2018/11/mateconf_eureca2018_02009.pdf)

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