

# Control unstable and shaky #2980

✓ Answered by maxime-clem MrOCW asked this question in Q&A

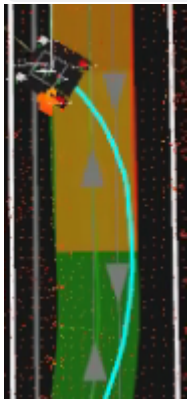


MrOCW on Oct 28, 2022

Hi, are there any tips on which parameters to tune to improve the stability of the control?

I am converting ackermann to a differential command on a skid steer robot and there are occasions where it shakes laterally and occasionally spins out of control (see image) where the steering angle is larger than the

`max_steer_angle` value given in the `vehicle_info`.



↑ 1



Answered by maxime-clem on Oct 28, 2022

There are instructions on [how to tune the parameters of the MPC used by the lateral controller](#).

If despite tuning you cannot get good tracking performance, you may be interesting in a new [Nonlinear MPC controller](#) that is not yet finalized but can

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maxime-clem on Oct 28, 2022

Collaborator

There are instructions on [how to tune the parameters of the MPC used by the lateral controller](#).

If despite tuning you cannot get good tracking performance, you may be interesting in a new [Nonlinear MPC controller](#) that is not yet finalized but can already be tested with Autoware.



Marked as answer

↑ 2

0 replies

