ABSTRACT

The present application provides a vehicle steering control method and apparatus, a vehicle and a storage medium. When an automatic U-turn mode is activated, a vehicle controller acquires an auxiliary parameter of a vehicle according to a pre-activation signal input by a user, generates a target direction, a rotation angle, a feed-forward torque and a target wheel speed, and then sends a steering instruction to a motor controller. The motor controller responds to the feed-forward torque, obtains a response signal, and sends the response signal to the vehicle controller. The vehicle controller acquires swing angle sensor information and lateral longitudinal acceleration information according to the response signal, and then calculates a wheel rotation angle and sends it to the motor controller. The motor controller performs self-closed loop control according to the target direction, the target wheel speed, the wheel rotation angle, the rotation angle and the auxiliary parameters to control the vehicle to complete steering. The zero-turning-radius steering during automatic U-turns for the vehicle is achieved, so as to make the vehicle steering more flexible, precise and efficient, and reduce rotation errors, thereby achieving driving control at millisecond level.

Fig. 2