CLAIMS

1. A method (M1) performed by a control device (100) for controlling driving operation of an articulated tracked vehicle (V), said articulated tracked vehicle (V) comprising a drive arrangement (120) for driving drive wheels (1) for operating the vehicle (V), a brake system (130) for braking the drive wheels (1) of the vehicle, and a transmission arrangement (140) for providing gear shift of the drive wheels (1), the articulated tracked vehicle (V) comprising a first vehicle unit (V1) and a second vehicle unit (V2) steerably connected to the first vehicle unit (V1) by means of a steering device (D) for mutually pivoting said vehicle units (V1, V2), the mutual pivoting comprising steering movement about a steering axis (Y), the steering device (D) comprising a steering arrangement (A1) for said steering movement about the steering axis (Y), the steering arrangement (A1) comprising steering cylinders for facilitating the mutual pivoting about the steering axis (Y), the method comprising the steps of, during drive of the vehicle:

– determining one or more of: steering angle between said vehicle units (V1, V2); power of said drive arrangement (120); speed of the drive wheels; speed of transmission of the transmission arrangement (140); and steering wheel angle of a steering wheel of the vehicle; and,

– controlling (S1) the steering arrangement (A1) of the steering device (D) by means of a control arrangement (110) acting on the steering arrangement comprising acting on the steering cylinders based on one or more of: steering angle between said vehicle units (V1, V2); power of said drive arrangement (120); speed of the drive wheels; speed of transmission of said transmission arrangement (140); and steering wheel angle of the steering wheel of the vehicle so as to control mutual steering movement of said vehicle units so as to reduce a risk of skidding and/or slipping for dynamic stability control.

2. A method according to claim 1, wherein the step of controlling the steering arrangement by means of the control arrangement (110) comprises providing

a brake function and/or a locking function and/or a damping function and/or an actuation function of the control arrangement (110).

3. A method according to any claim 1 or 2, wherein the step of controlling mutual steering movement of said vehicle units (V1, V2) further comprises controlling one or more of: power provision of the drive arrangement (120); a braking system (130) of the vehicle; and a transmission arrangement of the vehicle.

4. A control device (100) for controlling driving operation of an articulated tracked vehicle (V), said articulated tracked vehicle comprising a drive arrangement (120) for driving drive wheels for operating the vehicle, a brake system (130) for braking the drive wheels (1) of the vehicle, and a transmission arrangement (140) for providing gear shift of the drive wheels (1), the articulated tracked vehicle comprising a first vehicle units (V1) and a second vehicle units (V2) steerably connected to the first vehicle units (V1) by means of a steering device for mutually pivoting said vehicle units (V1, V2), the mutual pivoting comprising steering movement about a steering axis (Y), the steering device (D) comprising a steering arrangement (A1) for said steering movement about the steering axis (Y), the steering arrangement (A1) comprising steering cylinders for facilitating the mutual pivoting about the steering axis (Y), the control device being configured to, during drive of the vehicle:

– determine one or more of: steering angle between said vehicle units (V1, V2); power of said drive arrangement (120); speed of the drive wheels; speed of transmission of the transmission arrangement (140); and steering wheel angle of a steering wheel of the vehicle; and

– control (S1) the steering arrangement (A1) of the steering device by means of a control arrangement (110) acting on the steering arrangement comprising acting on the steering cylinders based on one or more of: steering angle between said vehicle units (V1, V2); power of said drive arrangement (120); speed of the drive wheels; speed of transmission of said transmission arrangement (140); and steering wheel angle of the steering wheel of the

vehicle so as to control mutual steering movement of said vehicle units (V1, V2) so as to reduce a risk of skidding and/or slipping for dynamic stability control.

5. A control device according to claim 4, the control arrangement (110) comprising a brake member (112) for providing a brake function and/or a locking member (114) for providing a locking function and/or a damping member (116) for providing a damping function and/or an actuator member (118) for providing an actuation function.

6. A control device according to claim 4 or 5, the control device (100), when controlling mutual steering movement of said vehicle units (V1, V2), further being configured to control one or more of: power provision of the drive arrangement (120); a braking system (130) of the vehicle (V); and a transmission arrangement (140) of the vehicle (V).

7. An articulated tracked vehicle (V) comprising a control device (100) according to any of claims 4-6.

8. A computer program (P) for controlling driving operation of an articulated tracked vehicle, said computer program (P) comprising program code which, when run on a control device (100) or another computer (500) connected to the control device (100), causes the control device to perform the steps according to claim 1-3.

9. A computer readable medium comprising instructions which, when executed by a computer, cause the computer to carry out the method according to anyone of claims 1-3.