

STEER-ASSIST BIKE

GAINING BETTER INSIGHT INTO BICYCLE STABILITY

By means of the steer-assist bicycle research, the TU Delft, together with Koninklijke Gazelle, aims to gather better insights into bicycle stability.

Self-stabilising bicycle

There is a high and increasing number of bicycle-related accidents, especially as a result of bicycle instability for elderly people. Bicycle control and steering behaviour play a crucial role in these accidents. That is why TU Delft researchers are teaming up with Koninklijke Gazelle N.V. to

develop a prototype steer-assist bicycle that will support the riders to better keep their bicycle under control. A small electric motor will be integrated into the steering column to help with the balancing of the bike when the rider is about to fall. The system, based on smart algorithms, is meant to eventually lead to a decrease in bicycle related accidents and hence an active lifestyle for the elderly.

Partner

Koninklijke Gazelle

TU Delft scientific expertise

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More information

bicycle.tudelft.nl