Health-Met

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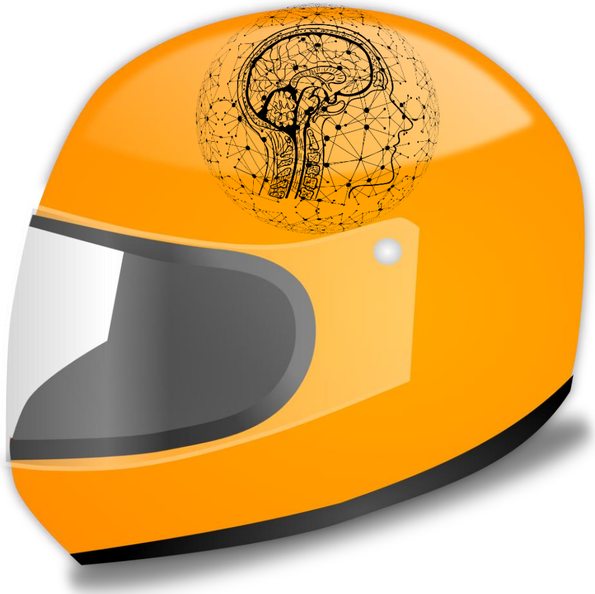
Invention

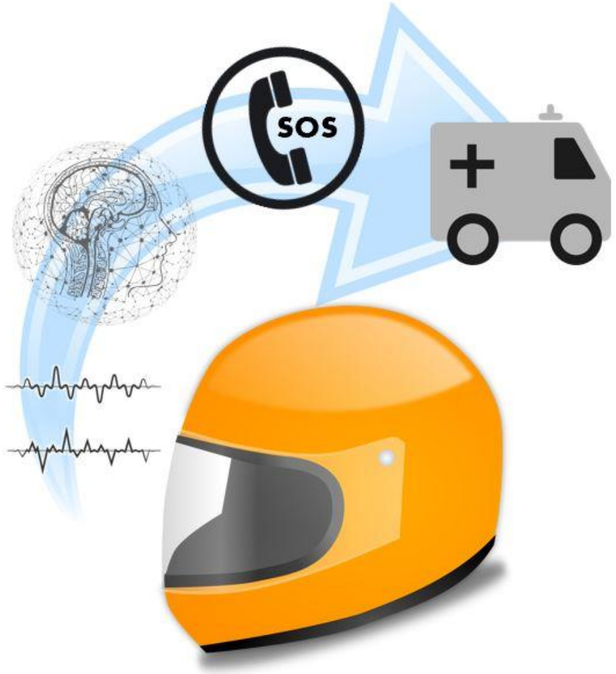
The invention, called Health-Met, is a technology designed for any person who is required to wear a helmet, both in the workplace and in the recreational environment. In the event of an accident, Health-Met is a precious ally of the user and of any rescuers, since it is not only able to call for help in the event of an accident, but is also able to estimate the damage suffered to the head through a form of Artificial Intelligence, in order to reduce risks and intervention times.

Health-Met is a technology that aims to support helmet manufacturers in making safer products. Through an artificial intelligence module and some sensors that can be integrated into any helmet model, this technology allows to provide a preventive estimate (with respect to a predefined scale of severity) of traumatic brain injuries in the event of an accident. This information, communicated to the rescuers together with the data necessary to locate the injured person, allows rapid treatment of the injuries, reducing the probability of permanent or fatal damage.

The incident detection technologies devised by Quintessential Helmet and Bosch are the two most recent examples demonstrating interest in these systems. Compared to the solutions currently on the market, which only allow the detection of an accident, the innovation introduced with Health-Met lies in the preventive estimate of head injuries. The great data collected by this technology over the years will ensure continuous improvement in brain injury estimation and therefore in user safety.

Drawings
& pictures





Industrial applications

The invention allows the development of new advanced devices for head protection and is therefore intended for the production of individual safety devices, as well as helmets for driving cycles, vehicles and motorcycles, or for sports use. The technology can also find application in the military as well as civil industry.

The advantages of the technology include the ability to call for help immediately after a claim, sending information on the possible harmful consequences of the event that has just occurred. The invention is compatible with any device already on the market and does not modify the aesthetics of the helmet in any way.

Possible developments

The patent is available under an exclusive and non-exclusive license, also through the foundation of a specific start-up. The licenses are available for the entire remaining term of the patent titles.

The research group is available for new research activities in collaboration and on behalf of third parties, technical insights, scientific advice, also aimed at raising the TRL of technology.

The TRL of the invention is 4.

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