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An Approach to Design a Smart Helmet Using Kansei Engineering

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Motorbikes have been a great medium of transportation among many people for decades. Nowadays, road accidents are much prominent on roads, and the tendency for motor bike users to get affected by those accidents is high. Owing to the reason that motorbike users are exposed to the outside world, their death rate is at a higher rate. Moreover, there is an increased rate of injury other than the deaths that occur as a result of road accidents. Though there are various helmet designs, they only ensure the safety of the motorbike riders to some extent. Therefore, there is the need to design a smart helmet that secures the lives of motorbike riders. Nevertheless, various smart helmets have been designed for the safety of motor bike riders integrating much more functionalities. This study mainly focuses on designing a smart helmet using the Kansei Engineering principles. This paper presents the design of a smart helmet that involves identifying the motorbike riders' emotions and integrating those results in designing the smart helmet.

Keywords: *Kansei engineering, smart helmet, human emotions, safety, designing*