Development of a Smart Ring Series Using Kansei Engineering

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People have become more flexible and healthier by using smart devices to track and do their daily work. Exercises and daily activity management are key factors in a human's daily life. After analysing humans' issues and difficulties, the authors decided to develop an automated device. The researcher's aim is to develop a smart ring series with different features embedded to make human life easier. Some people do not like to wear watches. However, almost all humans, especially females, love to wear rings. So, the authors decided that a ring should be more efficient and user-friendly. After the study, the authors decided to design a ring series as it would be easy for users. They can choose the ring with the features they need rather than buy all the rings. Accordingly, the authors designed four rings. The first ring is capable of tracking your fitness level. The second ring can be used to lock and unlock your belongings. The third ring can be used to track your emotions, while the last ring is capable of tracking motions. Each ring has a particular feature along with the relevant sensors needed to accomplish the task. The authors have conducted a survey to find the relevant features and have followed Kansei Engineering concepts when designing the final design. The authors have designed the final design by conducting a statistical analysis of the results.

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