

Virtual delivery of temperature and moisture sensation- Quokka device (Technion)

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Virtual and augmented reality (V/AR) compose a large part of developing technologies in fields such as medicine, gaming and communication. The basis of V/AR is sensory stimuli, the ability to experience something through human senses. Currently, visual & auditory stimuli are well developed in contrast to haptics (touch). This new development, Quokka, aims to control the temperature of a local area on human skin using thermoelectricity and peltier elements (two inter-connected metal sheets). When electricity passes through the connectors, the plates change their temperature according to the direction of the current, and this change is felt on the skin.

Contact for more information:

T3 Team , 048293116

T - Technion Technology Transfer
Technion City, Senate Bldg., Haifa 32000, Israel
Tel. 972-4-829-4851; 972-8325-375
Fax. 972-4-832-0845