

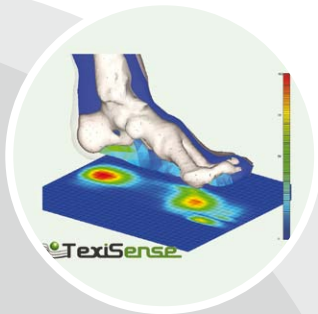


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excellence center for computer
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ONGOING PROJECT

PREVENTING PRESSURE ULCERS FOR DIABETIC AND PARAPLEGIC PERSONS



A pressure ulcer is an ischemic skin lesion stemming from a persistent compression of the soft tissues between a hard surface and bony prominences. Pressure ulcer prevention is essential to avoid the associated morbid complications such as foot amputations. Our aim is to develop embedded perceptual supplementation devices to prevent pressure ulcers. We have invented a textile able to measure skin pressures while remaining comfortable enough for daily use. In case of overpressures a warning is sent to the user through a vibrating watch or a smartphone.

- For medullary wounded subjects, a pressure sensing textile cover is placed on the wheelchair cushion and monitors the pressure patterns of the seated person.
- Designed for diabetic subjects, a Smart Diabetic Sock measures the pressures all around the foot during gait and warns the bearer if the foot is at risk. This prototype will be completed in 2013. This project was granted by the ANR, Carnot LSI Institute, GRAVIT, Garches Foundation and AXA Research Fund. **Contact: yohan.payan@imag.fr**



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