A novel virtual reality walking intervention comprising real-time haptic feedback and spinal transcutaneous electrical stimulation to restore sensory perceptions in people with discomplete spinal injury

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While recognition of surviving pathways in discomplete injuries has great rehabilitative opportunities, currently no effective interventions exist to promote or restore touch perception among those with discomplete SCI. Here we present a novel neuromodulation system that combines visual, auditory, haptic and electrical stimulation to initiate sensory/touch rehabilitation.