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## Direct Nerve Stimulation for Induction of Sensation and Treatment of Phantom Limb Pain

**Editor:** Winnie Jensen, Aalborg University, Denmark

The amputation of a limb is a surgical intervention used as a last resort to remove irreparably damaged, diseased, or congenitally malformed limbs where retention of the limb is a threat to the well-being of the individual. The procedure traumatically alters the body image, but often leaves sensations that refer to the missing body part, the phantom limb. In 50-80% of cases, these sensations are perceived as painful and referred to as 'Phantom Limb Pain'.

*Direct Nerve Stimulation for Induction of Sensation and Treatment of Phantom Limb Pain* provides an overview of research, experiences and results for the design, development and test of hardware and software components, and the ambition to safely implant and evaluate a novel neural interface system to combat phantom limb pain in an amputee volunteer subject.

River Publishers Series in Biomedical Engineering



### DIRECT NERVE STIMULATION FOR INDUCTION OF SENSATION AND TREATMENT OF PHANTOM LIMB PAIN

Winnie Jensen (Editor)



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