WEARPLEX Beta Workshop: FES applications

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24th March 2021
Principle of FES and multi-pad systems

Principle

Approach
Other examples of multi-pad FES

Dropfoot

TENS

Electrotactile feedback
WEARPLEX “SMART” Electrodes

Overcoming the limitations related to high number of leads
Printed logics is based on the same technology as the state of the art for production of multi-pad electrodes
Future developments for WEARPLEX

Challenge is in high output currents and high voltages that are needed for FES application

4 x OECT 2-4 DEMUX
16-pad stimulation electrode