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Introductory Remarks to Symposium 10

Brain-machine-interface in paralysis

Niels Birbaumer, Tübingen

The symposium presents an overview on recent advances in non-invasive and invasive brain-machine interfaces (BMI) in paralysis. Clinical and basic science and animal research focused on direct brain-machine connections to translate brain commands in movement and language without involvement of the motor system is presented. Applications to locked-in patients, chronic stroke and brain disorders will be discussed.
Symposium 10

Thursday, March 21, 2019
11:30 - 13:30, Lecture Hall 105

Chair: Niels Birbaumer, Tübingen

11:30 Opening Remarks

11:35 Gabriel Curio, Berlin
NON-INVASIVE SINGLE-TRIAL EEG DETECTION OF EVOKEO HUMAN NEOCORTICAL POPU-
LATION SPIKES (S10-1)

12:00 John Donoghue, Geneva, Switzerland
POTENTIAL CHALLENGES FOR IMPLANTABLE BRAIN COMPUTER INTERFACES (S10-2)

12:25 Niels Birbaumer, Tübingen
BCI IN STROKE REHABILITATION (S10-3)

12:50 Eilon Vaadia, Jerusalem, Israel
VOLITIONAL CONTROL OF SPATIOTEMPORAL PATTERNS OF NEURONAL SYNCHRONY VIA BRAIN-MACHINE INTERFACE (S10-4)

13:15 Daniel G. Schmidt, Ulm
EXECUTIVE EYE MOVEMENT IMPAIRMENT IN PRESYMPTOMATIC AMYOTROPHIC LATERAL SCLEROSIS MUTATION CARRIERS (S10-5)

13:25 Concluding Remarks
Joachim Fähnrich, Hamburg (Family and care taker of completely paralysed patient)