Research outputs
Listing of Research outputs

2018

Tuning characteristics of low-frequency EEG to positions and velocities in visuomotor and oculomotor tracking tasks. / Kobler, Reinmar; Sburlea, Andreea Ioana; Müller-Putz, Gernot.
Research output: Contribution to journal › Article

Exploring representations of human grasping in neural, muscle and kinematic signals. / Sburlea, Andreea I; Müller-Putz, Gernot R.
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Artifacts in EEG of simultaneous EEG-fMRI: Pulse artifact remainders in the gradient artifact template are a source of artifact residuals after average artifact subtraction. / Steyrl, David; Müller-Putz, Gernot.
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EEG patterns of self-paced movement imaginations towards externally-cued and internally-selected targets. / Pereira, Joana; Sburlea, Andreea Ioana; Müller-Putz, Gernot.
In: Scientific reports, Vol. 8, 13394 , 06.09.2018.
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Factors that affect error potentials during a grasping task: toward a hybrid natural movement decoding BCI. / Omedes, Jason; Schwarz, Andreas; Müller-Putz, Gernot R; Montesano, Luis.
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Frequency-specific cortical dynamics during motor imagery are influenced by prior physical activity. / Wriessnegger, Selina Christin; Brunner, Clemens; Müller-Putz, Gernot. In: Frontiers in Psychology / Movement Science and Sport Psychology , 2018. Research output: Contribution to journal › Article


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Cybathlon experiences of the Graz BCI racing team Mirage91 in the brain-computer interface discipline. / Statthaler, Karina; Schwarz, Andreas; Steyrl, David; Kobler, Reinmar; Höller, Maria Katharina; Brandstetter, Julia; Hehenberger, Lea; Bigga, Marvin; Müller-Putz, Gernot. In: Journal of NeuroEngineering and Rehabilitation , Vol. 14, No. 129, 12.2017. Research output: Contribution to journal › Article


Composing only by thought: Novel application of the P300 brain-computer interface. / Pinegger, Andreas; Hiebel, Hannah; Wriessnegger, Selina Christin; Müller-Putz, Gernot R. In: PLoS ONE, 06.09.2017. Research output: Contribution to journal › Article
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<td>2017</td>
<td>Upper limb movements can be decoded from the time-domain of low-frequency EEG.</td>
<td>Ofner, Patrick; Schwarz, Andreas; Pereira, Joana; Müller-Putz, Gernot R.</td>
<td>PLoS ONE</td>
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<td>TID - Introducing and Benchmarking an Event-Delivery System for Brain-Computer Interfaces.</td>
<td>Breitwieser, Christian; Tavella, Michele; Schreuder, Martijn; Cincotti, Leeb; Müller-Putz, Gernot.</td>
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<td>20.07.2017</td>
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<td>Workshops of the Sixth International Brain–Computer Interface Meeting: brain–computer interfaces past, present, and future.</td>
<td>Huggins, Jane; Guger, Christoph; Ziat, Mouia; Zander, Thorsten; Taylor, Denise; Tangermann, Michael; Soria-Frisch, Aureli; Simeral, John; Scherer, Reinhold; Rupp, Rüdiger; Ruffini, Giulio; Robinson, Douglas; Ramsey, Nick; Nijholt, Anton; Müller-Putz, Gernot; McFarland, Dennis; Mattia, Donatella; Lance, Brent; Kindermans, Pieter-Jan; Iturrate, Inaki; Herff, Christian; Gupta, Disha; Do, An; Collinger, Jennifer; Chavarriaga, Ricardo; Chase, Steven; Bleichner, Martin; Batista, Aaron; Anderson, Charles; Aarnoutse, Erik J.</td>
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<td>30.01.2017, p. 3</td>
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The role of transient target stimuli in a steady-state somatosensory evoked potential-based brain-computer interface setup. / Pokorny, Christoph; Breitwieser, Christian; Müller-Putz, Gernot.
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Evaluation of Healthy EEG Responses for Spelling through Listener-Assisted Scanning. / Horki, Petar; Klobassa, Daniela S.; Pokorny, Christoph; Müller-Putz, Gernot.
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High and low gamma EEG oscillations in central sensorimotor areas are conversely modulated during the human gait cycle. / Seeber, Martin; Scherer, Reinhold; Wagner, Johanna; Solis Escalante, Teodoro; Müller-Putz, Gernot.
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Detection of mental imagery and attempted movements in patients with disorders of consciousness using EEG. / Horki, Petar; Bauernfeind, Günther; Klobassa, Daniela S.; Pokorny, Christoph; Pichler, Gerald; Schipperger, Walter; Müller-Putz, Gernot.
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EEG beta suppression and low gamma modulation are different elements of human upright walking. / Seeber, Martin; Scherer, Reinhold; Wagner, Johanna; Solis Escalante, Teodoro; Müller-Putz, Gernot.
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Motor imagery induced EEG patterns in spinal cord injury patients and their impact on Brain-Computer Interface accuracy. / Müller-Putz, Gernot; Daly, Ian; Kaiser, Vera.
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Short time sports exercise boosts motor imagery patterns: implications of mental practice in rehabilitation programs. / Wriessnegger, Selina; Steyrl, David; Koschutnig, Karl; Müller-Putz, Gernot.
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A single switch BCI based on passive and imagined movements: towards restoring communication in minimally conscious patients. / Müller-Putz, Gernot; Pokorny, Christoph; Klobassa, Daniela; Horki, Petar.
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Research output: Contribution to journal › Article

Cortical effects of user training in a motor imagery based brain-computer interface measured by fNIRS and EEG. / Kaiser, Vera; Bauernfeind, Günther; Kreilinger, Alex; Kaufmann, Tobias; Kübler, Andrea; Neuper, Christa; Müller-Putz, Gernot.
Research output: Contribution to journal › Article

Hybrid brain-computer interfaces and hybrid neuroprostheses for restoration of upper limb functions in individuals with high-level spinal cord injury. / Rohm, Martin; Schneiders, Matthias; Müller, Constantin; Kreilinger, Alex; Kaiser, Vera; Müller-Putz, Gernot; Rupp, Rüdiger.
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Spatial-spectral identification of μ and β EEG rhythm sources during robot-assisted walking. / Seeber, Martin; Scherer, Reinhold; Wagner, Johanna; Solis Escalante, Teodoro; Müller-Putz, Gernot.
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Einsatz von Brain-Computer Interfaces zur Rehabilitation und Nutzung assistierender Technologien. / Kaiser, Vera; Kreilinger, Alex; Rupp, Rüdiger; Müller-Putz, Gernot.
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Switching between manual control and brain-computer interface using long term and short term quality measures. / Kreilinger, Alex; Kaiser, Vera; Breitwieser, Christian; Williamson, John; Neuper, Christa; Müller-Putz, Gernot. 
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Combined Motor Imagery and SSVEP based BCI Control of a 2 DoF Artificial Upper Limb. / Horki, Petar; Solis Escalante, Teodoro; Neuper, Christa; Müller-Putz, Gernot. 
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