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## Publications

### Papers

1. **G. R. Philips**, B. Gleich, G. A. Paredes-Juarez, A. Antonelli, M. Magnani, J. W. M. Bulte, "Magnetic Manipulation of Blood Conductivity with Superparamagnetic Iron Oxide-Loaded Erythrocytes," *ACS Applied Materials & Interfaces*, 11, Mar. 2019, pp. 11194-11201.
2. **G. R. Philips**, J. J. Daly, and J. C. Principe, "Topographical Measures of Functional Connectivity as Biomarkers for Post-Stroke Motor Recovery," *Journal of NeuroEngineering and Rehabilitation*, 14:67, Jul. 2017.
3. **G. R. Philips**, M. Kh. Hazrati, J. J. Daly, and J. C. Principe, "Addressing Low Frequency Movement Artifacts in EEG Signals Recorded During Center-Out Reaching Tasks," *IEEE Intl. Conf. on Engineering in Medicine and Biology*, Aug. 2014, pp. 6497-6500.
4. C. A. Loza, **G. R. Philips**, M. Kh. Hazrati, J. J. Daly, and J. C. Principe, "Classification of Hand Movement Direction Based on EEG High-Gamma Activity," *IEEE Intl. Conf. on Engineering in Medicine and Biology*, Aug. 2014, pp. 6509-6512.
5. **G. R. Philips**, C. H. G. Wright, and S. F. Barrett, "Expanding Smart Wheelchair Technology for Users with Severe Disabilities," *ISA Biomedical Sciences Instrumentation*, 44, Apr. 2008, pp. 47-52.
6. **G. R. Philips**, A. A. Catellier, S. F. Barrett, and C. H. G. Wright, "Electrooculogram Wheelchair Control," *ISA Biomedical Sciences Instrumentation*, 43, Apr. 2007, pp. 164-169.

### Other Works

1. **G. R. Philips**, B. Gleich, G. A. Paredes-Juarez, A. Antonelli, M. Magnani, J. W. M. Bulte, "Virtual Brain Electrode (VIBE): Selective Magnetic Manipulation of Blood Conductivity," *proceedings of the 9<sup>th</sup> International Workshop on Magnetic Particle Imaging*, New York, NY, Mar. 2019.
2. **G. R. Philips**, B. Gleich, G.A. Paredes-Juarez, A. Antonelli, M. Magnani, J. W. M. Bulte, "Virtual Brain Electrode (VIBE) for Imaging Neuronal Activity," poster presented at the 4<sup>th</sup> Annual BRAIN Initiative Investigators Meeting, Bethesda, MD, Apr. 2018.
3. **G. R. Philips**, B. Gleich, A. Antonelli, M. Magnani, J. W. M. Bulte, "Virtual Brain Electrode (VIBE) for Imaging Neuronal Activity," poster presented at the 3<sup>rd</sup> Annual BRAIN Initiative Investigators Meeting, Bethesda, MD, Dec. 2016.
4. **G. R. Philips**, J. J. Daly, and J. C. Principe, "Quantification of Functional Connectivity using Topographical Volume for Brain-Computer Interface Enabled Stroke Rehabilitation," poster presented at the 2<sup>nd</sup> international conference on Real-time Functional Imaging and Neurofeedback, Gainesville, FL, Feb. 2015.
5. **G. R. Philips**, "How to Program the Flash Memory of a Minidragon+ (9s12dp256 Based Evaluation Board)," *University of Wyoming Technical Manual*, 2007.