Recent patent applications in neural engineering

Patent number	Description	Assignee	Inventor	Priority application date	Publication date
US8862219B2	A method of and system for creating a user profile for use in a brain computer interface (BCI), and a method of and system for creating a BCI for a user for an application.	Koninklijke Philips (Eindhoven, the Netherlands), Garcia Molina GN, Bruekers AAML, Damstra MC, Weda J	Garcia Molina GN, Bruekers AAML, Damstra MC, Weda J	10/4/2007	10/14/2014
US8849727B2	A method and system for classifying brain signals in a BCI system, and to a data storage medium having stored thereon computer code means for instructing a computer system to execute a method for classifying brain signals in a BCI.	Lu S, Agency for Science Technology and Research (Connexis, Singapore), Guan C, Zhang H	Lu S, Guan C, Zhang H	5/26/2008	9/30/2014
US20140249396A1	An implantable electrode of electrode array designed for brain recording and/or stimulation.	Shacham-Diamand Y, Ramot at Tel Aviv University Ltd. (Tel Aviv, Israel), Mintz M, Taub A	Shacham-Diamand Y, Mintz M, Taub A	8/4/2011	9/4/2014
US20140228701A1	A method involving determining one or more features of brain neural signals using a BCI. Anonymized neural signals are generated using the BCI anonymizer of the BCI by filtering one or more features to remove private information. One or more application commands for the BCI-enabled application are generated from the anonymized neural signals using the BCI. One or more application commands are sent from the BCI.	University of Washington Center for Commercialization (Seattle)	Chizeck HJ, Bonaci T	2/11/2013	8/14/2014
US20130144145A1	Implantable neural tissue reporting probes and methods of manufacturing and implanting the same.	University of Southern California (Los Angeles)	Meng E	12/5/2011	6/6/2013
US20130096453A1	BCI devices and methods for precise control of an object to be controlled. The device has a brain wave information processing unit receiving converted brain wave information including object motion information, and extracting object control information including the object motion information from the converted brain wave information.	Seoul National University R&DB Foundation (Seoul), Kim JS, Chung CK, Yeom HG	Kim JS, Chung CK, Yeom HG	10/12/2011	4/18/2013
US20130072775A1	Methods and devices related to electrophysiological measurement over a complex-shaped biological surface, such as the brain. Specially configured devices are conformable and provide the ability to measure complex spatiotemporal waveforms over relatively large areas of the brain, including in areas requiring high device bendability such as between brain hemispheres.	Rogers J, Kim DH, Litt B, Viventi J	Rogers J, Kim DH, Litt B, Viventi J	6/3/2011	3/21/2013
US20120296569A1	A method involving receiving neurophysiological data, and identifying features and relations among features in the neurophysiological data.	Elminda Ltd. (Herzlia, Israel)	Shaha G, Reches A, Geva AB, Pinchuk N, Ben-Bassat G, Kanter A, Shani-Hershkovich R, Gadot R, Stern Y	1/18/2010	11/22/2012
US8090674B2	Systems for recording of neuronal signals, and more particularly to an integrated system for multichannel neuronal recording with spike/local field potential (LFP) separation, integrated A/D conversion and threshold detection. A band splitter separates the analog signals into low-frequency LFP and high-frequency spike data, which are band limited by programmable cut-off low-pass filter. Several analog/digital converts convert the analog signals into bits.	Technion Research and Development Foundation Ltd. (Haifa, Israel)	Ginosar R, Perelman Y	7/6/2004	1/3/2012

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