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| **함수 명** | | **기능정의** | |
| [EEG, command, dat] = Emotiv\_Load (filename, varagin) | | Loading the Emotiv data | |
| **변수정의 - input parameters** | | **변수정의 - Returns** | |
| Filename : [string] file name | | EEG: OPenBMI data structure  ‘X’: original data  ‘Fs’: SamplingRate  ‘nCh’: channel number  ‘Chset’: channel informantion | |
| Varagin : optional input | |
| 'channels': [integer array] list of channel indices  'rmeventchan': remove event channel after event extraction | |
| **내부 함수** | | **기능** | |
| 1-1. sopen | | 1-1. Opens signal files for reading and writing and return the header information. | |
| 1-2. convertOpenBMI | | 1-2. Convert BIOSIG structue to OpenBMI structure | |
| 1-3. eeg\_checkset | | 1-3. Check the consistency of the fields of an EEG dataset | |
| 1-4. finputcheck | | 1-4. Checking the Matlab function | |
| 1-5. eeg\_emptyset | | 1-5. Initialize an EEG dataset structure with default values | |
| **참고문헌**: A. Delorme, and S. Makeig, "EEGLAB: an open source toolbox for analysis of single-trial EEG dynamics.” Journal of Neuroscience Methods, Vol. 134, 2004, 9-21. | | | |
| **담당** | 기영진 | **개발소요(일)** |  |
| **모듈** | 장비연동 | **개발일정** |  |

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| **함수 명** | | **기능정의** | |
| [HDR,H1,h2]=sopen (arg1,PERMISSION,CHAN,MODE) | | Opens signal files for reading and writing and returns the header information. | |
| **변수정의 - input parameters** | | **변수정의 - Returns** | |
| arg1 : Making the argument | | HDR : Return the Hader file  H1 : Optionally return the header file 1  H2 : Optionally return the header file 2 | |
| PERMISSION : Choosing the permission | |
| CHAN : Channel information | |
| MODE : Mode selection information | |
| **내부 함수** | | **기능** | |
| 1-1. LeadIdCodeXYZ | | 1-1. Uses the Label information for computing the LeadIdCode and the XYZ position of the EEG Electrodes. | |
| 1-2. Physicalunit | | 1-2. Converts PhysDim inte PhysDimCode | |
| 1-3. GETFILETYPE | | 1-3. Get the file type | |
| **참고문헌**: A. Delorme, and S. Makeig, "EEGLAB: an open source toolbox for analysis of single-trial EEG dynamics.” Journal of Neuroscience Methods, Vol. 134, 2004, 9-21. | | | |
| **담당** | 기영진 | **개발소요(일)** |  |
| **모듈** | 장비연동 | **개발일정** |  |

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| **함수 명** | | **기능정의** | |
| EEG = convert\_OpenBMI(dat interval, channels, importevent) | | Convert BIOSIG structure to OpenBMI structure | |
| **변수정의 - input parameters** | | **변수정의 - Returns** | |
| Data : adding the data | | EEG: Saving the OPenBMI data structure  ‘X’: original data  ‘Fs’: SamplingRate  ‘nCh’: channel number  ‘Chset’: channel informantion | |
| Interval : choosing the data interval | |
| Channel: channel location | |
| Importevent: importing the of event | |
| **내부 함수** | | **기능** | |
| 1-1. eeg\_checkset | | 1-1. Check the consistency of the fields of an EEG dataset | |
| 1-2. Mat\_format | | 1-2. Making the empty data structure | |
| 1-3. Emotiv\_Channel | | 1-3. Removing unnecessary channels and information in Emotiv | |
| **참고문헌**: A. Delorme, and S. Makeig, "EEGLAB: an open source toolbox for analysis of single-trial EEG dynamics.” Journal of Neuroscience Methods, Vol. 134, 2004, 9-21. | | | |
| **담당** | 기영진 | **개발소요(일)** |  |
| **모듈** | 장비연동 | **개발일정** |  |