Resource Summary Report

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Brain Machine Interface Platform

RRID:SCR_001813
Type: Tool

Proper Citation

Brain Machine Interface Platform (RRID:SCR_001813)

Resource Information

URL: http://bmi.neuroinf.jp/

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Description: Databases of accumulating BMI (Brain Machine Interfaces)-related experimental data, mathematical models, and tools generated in neuroscience, computational theory, and robotics. Databases include: # Database of BMI (Brain Machine Interfaces)-related papers: More than 3500 BMI-related papers are registered. Each paper has original tags, for example, recording method and subject, for easy searching. # Database of original contents: BMI-related materials (Movie, Picture, Data, Program) provided by scientists. # Database of BMI-related research sites: 185 BMI-related research sites in the world (university, institute and company) are registered. The research site can be searched either by the location using clickable map or by the field of interest. # Database of BMI-related materials: Links to BMI-related materials (Movie, Picture, Document, Data, Program) are listed. You can easily find materials of your interest since each material is classified into research field. # BMI-related column: The columns are written by researchers specialized in BMI. Original contents include: * Neuronal activity during performance of a memory-guided movement * Reconstructed visual images from human fMRI activity * fMRI data and program for visual image reconstruction * Brain sections of monkeys, stained for several gene markers * Cortical Box Method: The Cortical box method is an analytical method that standardizes the serial coronal sections of rodent cortex for quantitative analysis. * Multineuron activity in monkey prefrontal cortex * Monkey Atlas: **Brain sections of monkeys, stained for AChE, ER81 mRNA and Sema3E mRNA - These pictures are low-resolution photos of serial brain sections of monkeys, stained for AChE as well as for ER81 and Sema3E mRNAs. The compressed file contains JPEG photos and html files for web browser navigation. Other materials are available at our website BraInSitu dedicated for in situ hybridization resources for brains. BraInSitu http://www.nibb.ac.jp/brish/indexE.html ** MRI Brain Atlas of Japanese Snow Monkey (Macaca Fuscata) at different ages - MRI Brain Atlas of Japanese Snow Monkey (Macaca Fuscata) at different ages ** The Stereotaxic MRI

Brain Atlas of Japanese Snow Monkey - The Stereotaxic MRI Brain Atlas of Japanese Snow Monkey * Monkey M1 BMI ** m-file for checking the results of wrist angle estimation- This program is m-file to train the relationship between joint angles and EMG signals using artificial neural network. The input signals are four EMG signals and the output signals are joint angles of wrist, such as flexion/extension, radial deviation/uln ** m-file for training of wrist angle estimation -This program is m-file to train the relationship between joint angles and EMG signals using artificial neural network. The input signals are four EMG signals and the output signals are joint angles of wrist, such as flexion/extension, radial deviation/ulnar deviation.ar deviation. ** M1 Neuronal Activity during monkey performing a motor task - video/x-ms-wmv ** Muscle tension - To estimate muscle tension from raw emg signal ** raw EMG signal - Raw EMG signal for 5 seconds ** training data of wrist angle and emg signal - This program is m-file to train the relationship between joint angles and EMG signals using artificial neural network. The input signals are four EMG signals and the output signals are joint angles of wrist, such as flexion/extension, radial deviation/ulnar deviation. ** Weight file of neural network - This program is m-file to train the relationship between joint angles and EMG signals using artificial neural network. The input signals are four EMG signals and the output signals are joint angles of wrist, such as flexion/extension, radial deviation/ulnar deviation. * Multineuron activity in monkey prefrontal cortex: Multineuron activity in monkey prefrontal cortex recorded by 3 tetrodes. Vertical 4 lines indicate one tetrode. Adjacent tetrodes are around 500 micron apart to each other.

Abbreviations: BMI PF, BMI-PF

Synonyms: BMI (Brain Machine Interface) Platform, BMI platform, BMI-platform, Brain Machine Interface Platform (BMI PF)

Resource Type: software repository, database, service resource, storage service resource, data repository, software resource, data or information resource, bibliography

Keywords: experimental data, brain, collaboration, computational theory, cortex, mathematical model, model, monkey, motor, neuroscience, paper, physiology, robotics, rodent, sensor, signal processing, theory, tool, video, fmri, human, atlas

Funding:

Availability: The community can contribute to this resource

Resource Name: Brain Machine Interface Platform

Resource ID: SCR_001813

Alternate IDs: nif-0000-10378

Record Creation Time: 20220129T080209+0000

Record Last Update: 20250523T054210+0000

Ratings and Alerts

No rating or validation information has been found for Brain Machine Interface Platform.

No alerts have been found for Brain Machine Interface Platform.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We have not found any literature mentions for this resource.