

## Joint ILAE-IFCN EEG Database Task Force

Annual Report 2023

### MEMBERS

Stefan Rampp (Germany), ILAE, chair  
Sandor Beniczky (Denmark), ILAE, past chair  
Ingmar Blumcke (Germany), ILAE  
Jean Gotman (Canada), ILAE  
Donald Schomer (USA), ILAE  
William Tatum (USA), ILAE  
Sam Wiebe (Canada), ILAE  
Elza Márcia Targas Yacubian (Brazil), ILAE  
Nick Kane (UK), IFCN  
Margitta Seeck (Switzerland), IFCN  
Bernd Vorderwühlbecke (Germany), IFCN  
Jo Wilmhurst (South Africa), IFCN

### ACCOMPLISHMENTS

The main accomplishments from 2023 are the implementation of the new web-based viewer, support for simultaneous video and preparation of a demo case. Completion of this milestone now enables us to move ahead with the content of the database itself, as well as logistical questions, such as where and how to make the database available to learners.

### ACTIVITIES

The Joint ILAE-IFCN EEG Database Task Force aims to develop and implement a web-based EEG database for educational purposes with an online viewer for SCORE-annotated video-EEG. To this end, a large collection of video-EEG data has been annotated by experts in collaboration with Holberg EEG (Bergen, Norway) and offered as the SCORE EEG educational platform. The learner can access the data through remote desktop access over a virtual private network. However, to avoid the technical overhead, which often conflicts with the security measures of healthcare institutions, the development of a web-only viewing software was planned.

Due to the impact of the COVID-19 pandemic, Holberg EEG had to review its overall strategy. As a result, the development of a web-only video EEG software has been halted and is not considered feasible in the foreseeable future.

The Task Force had decided to use either an open-source alternative viewer or an improved EEG viewing web application developed by Stefan Rampp (University Hospital Erlangen, Germany), which is currently used as part of the ILAE Academy course content. After evaluating the various options, the viewer developed by Stefan Rampp was chosen for its greater flexibility and adaptability to the needs of the project. The main focus in 2023 was therefore to improve

the implementation to support simultaneous video, to improve the user interface and to prepare a demonstration using data from the Holberg EEG database. This work could be completed by the end of 2023. In addition, initial support for voltage maps could be added to allow future users of the database to evaluate the EEG in detail.

## **MEETINGS**

Only one work meeting among individual members due to the rather technical nature of the work in 2023

*Report submitted by Stefan Rampp*