

Joint ILAE-IFCN EEG Database Task Force 2022 Annual Report

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

In 2022, membership of the Joint ILAE-IFCN EEG Database Task Force was updated for the new term. To this end, both the International League Against Epilepsy (ILAE) and the International Federation of Clinical Neurophysiology (IFCN) selected respective new and remaining members. Main accomplishments of 2022 are the changes and solutions necessitated by the impact of the COVID-19 pandemic on Holberg EEG. Since development of a web-only Video-EEG app by the collaborating company was not feasible anymore, alternative solutions were found. This included two options for technical solutions: an open-source Video-EEG web-app developed by Sampsa Lohi (Kuopio University Hospital, Finland) and an EEG web-app developed by Stefan Rampp (University Hospital Erlangen, Germany). Furthermore, a tentative agreement was reached with Holberg EEG allowing usage of the available Video-EEG data from the SCORE EEG educational platform.

ACTIVITIES

- The Joint ILAE-IFCN EEG Database Task Force aims at developing and implementing 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 had been annotated by experts, in collaboration with the company Holberg EEG (Bergen, Norway), offered as the SCORE EEG educational platform. By means of remote desktop access via a virtual private network, the learner can access the data. However, due to avoid the technical overhead, which frequently also causes conflicts with security measures of health care institutions, the development of a web-only viewing software had been planned. In 2022, both administrative points and issues concerning project content were

addressed. As a main administrative action point in 2022, membership of the task force was updated both by the ILAE and IFCN.

- In terms of development of the database, a major obstacle was encountered. Due to the impact of the COVID-19 pandemic, Holberg EEG had to revise their overall strategy. As a result, the development of a web-only Video-EEG software was halted and is not deemed feasible in the foreseeable future. However, this component is essential for the success of the project. The task force therefore discussed potential alternatives. As a solution for the technical requirements, two online EEG-viewers have been identified and are under discussion: An open-source Video-EEG web-app developed by Sampsa Lohi (Kuopio University Hospital, Finland) and an EEG web-app developed by Stefan Rampp (University Hospital Erlangen, Germany), currently being used as part of ILAE Academy course content. Regarding the use of the available annotated Video-EEG, Holberg EEG has tentatively agreed to its usage as part of the planned database for educational purposes. A contract defining corresponding details is being worked on.

HIGHLIGHTS

- Establishing a task force with new and remaining ILAE and IFCN members
- Identification of solutions for implementation of web-based Video-EEG app
- Tentative agreement with Holberg EEG on the use of SCORE-annotated Video-EEG data from the SCORE EEG educational platform

MEETINGS

Virtual meeting on 20 September 2022, virtual meetings with Holberg EEG

Report submitted by Stefan Rampp