

Poster Presentations Program

Monday 11/11/2024 6:00 – 7:00 PM QUICKFIRE POSTER PRESENTATIONS

Tuesday 12/11/2024 6:30 – 7:30 PM POSTER PRESENTATIONS

Poster Number	Author	Title
1	Niklas Hahn	Towards a Closed Loop Setup for a Cortical Neural Prosthesis using novel flexible 64 channel electrodes
2	Corinne Orlemann	Investigating Design Parameters for Improved Tissue Integration in Brain-Computer-Interface Technology
3	Marcos Adrian Villamarin	Exploring Intracortical Microstimulation in Visual Impairment: Neurophysiological Insights into Attention Dynamics
4	Ashkan Nejad	Gaze-SPV: An End-to-End Gaze-based Learning Approach for Enhancing Object Representation in Prosthetic Vision
5	Francesc Varkevisser	The Impact of Voltage Scaling on Energy Efficiency in Multichannel Electrical Stimulation Applications
6	Gloria Ruiz Boix	An Assessment of Multi-Electrode Cuff Arrays (MECAs): Histological Consequences of Prolonged Electrical Stimulation and Acute Implantation in Peripheral Nerve
7	Henning Schulte	Visual field mapping by free-viewing movies: Application in artificial vision?
8	Lara Merken	Effect of epicranial Direct Current Stimulation on baseline activity and orientation tuning in macaque primary visual cortex
9	Laurens Goyvaerts	Stimulation feasibility study in sheep of flexible intracortical microelectrodes for a cortical visual prosthesis
10	Maria del Mar Ayuso Arroyave	Development of an augmented reality platform for artificial vision simulations
11	Peimin Yuan	Dual-mode electronic and optogenetic visual cortical prosthetics
12	Puk Nuijten	Electrical Stimulation in the Mouse Lateral Geniculate Nucleus

13	Lily Turkstra	Neural correlates of visual working memory and mental imagery in human visual cortex
14	Andrea Rodríguez-Despaigne	Optimizing Histomorphological Processing for Electron Microscopy and Automatic Image Segmentation
15	Ilias Sarbout	AI-Powered Autonomous Mobility Systems For Evaluating Simulated Cortical Prosthetic Vision
16	Burcu Küçükoğlu	Bayesian optimisation of cortical neuroprosthetic vision upon patient feedback on perceptual quality
17	Maarten Schelles	High-resolution intracortical visual prosthetics
18	Roberto Morollón Ruiz	Enhancing Orientation and Mobility Assessments for Visually Impaired Individuals through AI-Based Body Tracking
19	Dorota Waclawczyk	Integrating Eye-Tracking and EOG in Visual Prostheses for Patients without Eyes
20	Alina Schulte	Audio-tactile speech perception in cochlear implant users: fNIRS cortical responses after sensory restoration
21	Maureen van der Grinten	Investigating multi-area neural responses to cortical micro-stimulation for visual prostheses
22	Jacob A. Westerberg	Flexible polymer depth electrode array for electrical stimulation across many primate brain areas in strong magnetic fields
23	Aimee Solzbacher	Development of a simulator for blindness to define requirements for a visual prosthesis
24	Eleftherios Papadopoulos	Interactive Semantic Segmentation for Phosphenes Vision Neuroprosthetics