Contribution ID: **188** Type: **Paper presentation**

NeuroKinetics: Development of an Interactive System for NeuroKinetics Recovery

Thursday 18 September 2025 15:30 (15 minutes)

This paper presents NeuroReact, a multi-sensory system in the field of NeuroKinetics (a term we use to describe the study of neurological responses to motion-based stimuli), designed to evaluate and support neurocognitive reactions to specific stimuli (audio, visual, tactile) using embedded hardware and gamified interaction. The experimental scenarios were adapted for different recovery games, each one of them having the structure composed of consecutive sequences, which are themselves composed of more iterations. The final goal is the correct and coherent evaluation of the promptness of the reactions of the user, depending on the specific level of difficulty, which rises with each sequence.

Authors: Mr MOSOR, Adrian (Universitatea Politehnica din Timisoara); BOGDAN, Razvan (Universitatea Politehnica din Timisoara)

Presenter: BOGDAN, Razvan (Universitatea Politehnica din Timisoara)

Session Classification: Security & Resilience in Cyber-Physical Systems

Track Classification: Networking in Education and Research