CAG Brain and Technology (BAT)

BRAIN & TECHNOLOGY SYMPOSIUM

Bridging Engineering and Clinical Neuroscience

📅 2nd October 2025

🕐 09:00 – 16:00

📍 Multihallen, Bodil Eskesen Center, Glostrup

Experience an inspiring day, where engineering and clinical neuroscience meet!

- Inspiring presentations from experts and innovators

- Interactive discussions and knowledge sharing

- Opportunities to foster new collaborations

💡 **Register now and be part of the future of brain research and technology!**

09:00-09:15	**Welcome/ Martin Ballegaard and Paul Michael Petersen**
09:15-09:55	**Keynote** • **Lars Kai Hansen**, Professor, DTU Compute **-** *Foundation models for EEG - data, learning and explainability*
09:55-11:00	**Neurology and wearables** • **Ivana Novosel Bardino**, Physiotherapist, PhD - *From Capacity to Reality: Monitoring Real-World Movement Behaviors of Young People with Cerebral Palsy* • **Per Bækgaard**, Associate Professor – TBA. • **Martin Ballegaard,** MD, Associate Professor - *Can we rely on the patient self-examination to grade neuropathy. Validation of Neuropathy Tracker* • **Jenny-Ann Phan**, MD, Senior Researcher - *Early motor features in Parkinson's disease quantified by motion capture*
11:00-11:10	**Break**
11:10-12:25	**Neurology and biomarkers** • **Mathias Holsey Gramkow**, MD, PhD-student - *Actigraphy and machine learning for diagnosis and prognostication of dementia disorders* • **Lasse Christiansen**, Senior Researcher - *An immediate EEG response to TMS over motor cortex: A novel marker for pyramidal tract activation?* • **Alireza Dolatshahi-Pirouz**, Associate Professor - *Soft and compliant digital biomaterials for healthcare monitoring* • **Måns Magnusson**, Professor - *Motion sickness and control of balance as a technological problem* • **Paul Michael Petersen**, Professor - *The biological effects of light on the brain measured by a wearable device*
12:25-13:20	**Lunch and networking**
13:20-14:35	**Neurology and Digital Health** • **Frederikke Fahse**, PhD-student - *Hierarchies of Epilepsy: How technology design matters* • **Morten Freiesleben**, Occupational therapist, and **Mikkel Damgaard Justiano**, Cand.Polyt., Ph.D. - *Low-cost technologies to increase participation for people with disabilities* • **Rasmus Harboe**, Msc. Stud. – *Prototyping of a mHealth Tool for Sit-to-Stand Rehabilitation in Patients with Acquired Brain Injury* • **Jakob Bardram**, Professor - *Digital Phenotyping Technology in Neurology - Opportunities and Challenges* • **Johanne Lykke**, PhD student - *IPARD: Improving Integrated care pathways for Patients with chronic diseases And their Relatives through a Digital solution*
14:35-14:45	**Break**
14:45-15:50	**Neurology and AI** • **Jonathan Wenstrup**, MD, PhD - *How can we improve the prehospital recognition of stroke using AI?* • **Sadasivan Puthusserypady Kumaran -** *Decoding the Brain: AI and BCI at the Crossroads of Neuroscience and Technology* • **Poul Jørgen Jennum**, Professor - *Use of AI and simplified methods in evaluation of sleep disordered breathing* • **Malini Vandela Sagar**, MD, PhD-student - *Can an MRI-based artificial intelligence algorithm diagnose strokes?*
15:50-16:00	**End of day - Thank you/ Martin Ballegaard/Paul Michael Petersen**

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