

# ”Living the DREAM” Seminar (Tampere University)

Wednesday, June 17, 2026, at 09:00 – 15:30. Room: TAU Arvo F212

<https://tuni.zoom.us/j/66126209958?pwd=0qClyLvmwIwJ32SElsNBeNuwVEcCaS.1>

Meeting ID: 661 2620 9958

Passcode: 421174

## Session 1

- 09:00 Welcome
- 09:05 **Ivan Perez-Torres:** How Neuron Type, Morphology, and Myelination Shape Temporal Interference Responses: A Computational Study
- 09:20 **Katja Törmä:** Functional connectivity methods in brain connectivity estimation
- 09:35 **Elaheh Sabbaghi:** Acute scalp EEG signatures of anterior nucleus of the thalamus DBS in epilepsy
- 09:50 **Kaisla Walls:** Imaging engineered heart tissues with inverted selective plane illumination microscopy

## Coffee break

10:05-10:30

## Session 2

- 10:30 **Philipp Schiller:** A Bayesian Framework for Ill-posed Geometric Primitive Reconstruction from Point Clouds using Prior Information
- 10:45 **Shahab Baloochi:** Topology-Aware Deep Learning for Structural Analysis of Tree Point Clouds from Terrestrial Laser Scanning
- 11:00 **Ishan Sen:** AI-Driven Context-Aware AAC System: Framework Design, Prototype Development, and Personalization
- 11:15 **Etna Lindy:** Multiplicities of eigenvalues of resultant matrices

## Lunch

11:30-13:00

## Session 3

- 13:00 **Arash Zarrin Nia:** Improving EEG Source Localization Through Practical Head Modeling Choices
- 13:15 **Topi Pajala:** Exploratory Study for Radar Tomography of Dimorphos - the Asteroid Moon of 65803 Didymos

13:30 **G Harish Kaushik:** Hierarchical Bayesian modelling for predicting component failure

13:45 **Jetro Sihvonen:** Control of incompressible fluid flows

## Coffee break

14:00-14.20

## Session 4

14:20 **Dilshanie Prasikala:** Methodological Advancements in Standardized Kalman Filtering for EEG Source Localization

14:35 **Paavo Virtanen:** Computer modelling and simulations of phenotypic plasticity in electro-chemo-mechanical function of the heart

14:50 **Farnaz Javanpour:** Beyond Geometric Error: Learning Radiomic Consistency for Histology- $\mu$ CT Registration Validation

15:05 **Babatunde Abdullahi Olatunji:** Enhanced Source Localization Usin Bidirectional Deep Brain Stimulation Electrodes: A Comparative Study with Scalp EEG

15:20 Closing words