The 17th Karniel Computational Motor Control Workshop

July 7th, 2024

Senate Building, Ben-Gurion University

Program

9:00–9:30 – Reception & Registration
9:30–9:40 – Opening

9:40–11:20 – Session 1 (Chair : Firas Mawase)
  Neural and cognitive basis of motor learning and recovery

9:40–10:10 – Lior Shmuelof, BGU
      Does cognitive impairment after stroke affect motor learning and recovery?

10:10–10:40 – Mati Joshua, HUJI
      Reward and motor learning in the cerebellum: Knowns and unknowns

10:40–11:00 – Nirvik Sinha, HUJI
      Disentangling acute motor deficits and adaptive responses evoked by the loss of cerebellar output

11:00–11:20 – Ori Rajchert, Technion
      Direction-dependent dissimilarity of fingers fine-motor control in subacute stroke

11:20–11:40 – Coffee break

11:40–13:00 – Session 2 (Chair : Ilana Nisky)
  Real-life motor learning

11:40–12:10 – Jason Friedman, TAU
      Boosting Motor Learning: Insights from Juggling and Piano Practice

12:10–12:40 – Nili Krausz, Technion
Bionic Limbs: At the Intersection of Human and Robotic Controls

12:40–13:00 – Yarden Sharon, Max Planck
Long-Term Skill Development in Robot-Assisted Surgery

13:00–15:00 – Lunch + Posters

15:00–16:20 – Session 3 (Chair : Opher Donchin)
Sensorimotor processing for function

15:00–15:30 – Jackie Schiller, Technion
Cell type dependent computations and learning in primary motor cortex

15:30–16:00 – Ronen Segev, BGU
Motor adaptation in natural and artificial behaviors in telost fish

16:00–16:20 – Alexander Rivkind, Weizmann Institute
Oculomotor biofeedback for enhancing gaze control and attention measures
in ADHD

16:20–16:30 – Concluding remarks & Prizes

16:30   – In Memoriam: Amir Karniel