



**Dr. Elishai Ezra Tsur**

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## **Brain-inspired Computer Vision**

**Tuesday, May 7, 2024**

**2:30 pm – 4:30 pm, Room 1N-111**

**Abstract:**

One of the most fundamental challenges in modeling human cognition is linking high-level experiences to low-level biologically plausible computational models. Advances in computational neuroscience, cognitive science, and artificial intelligence continually power our attempts to shed light on this grand challenge. One of the most interesting aspects of human cognition is visual perception. In this talk, I will highlight our recent developments of computational models for color perception with biologically plausible spiking neural networks.

**Bio:**

Prof. Elishai Ezra Tsur is the Principal Investigator of the Neuro & Biomorphic Engineering Lab (NBEL-lab.com), the Chair of the M.Sc program in Machine Learning and Big Data, and an Associate Professor at the Open University of Israel. In his research, Elishai studies the realm of brain-inspired machines. He utilizes artificial brains to develop new frameworks for robotics and vision processing. Elishai Holds degrees in Life sciences (B.Sc), Philosophy and History (B.A), Computer Science (M.Sc), Clinical and Rehabilitation Neuropsychology (M.A), Bioengineering (M.Sc, PhD), and Computational Neuroscience (Post Doc).