



Institute for Neural Computation

Location: San Diego Supercomputer Center, East Annex South Wing, Level B1, EB-129

Date/Time: Thursday – January 14, 12:30-1:30pm



Tim Mullen, Ph.D.

Director, Qusp Labs (formerly Syntrogi Labs)
Co-Founder & CEO, Qusp

TOWARDS PERVASIVE AND REAL-WORLD NEUROIMAGING AND BCI

Abstract: I will discuss and demonstrate recent efforts by our group towards evolving a new generation of real-world and pervasive brain-computer interface (BCI) and neuroimaging technology. I will discuss some of our recent research in this domain, including a recent collaboration between Qusp, Cognionics and INC developing a high-resolution dry mobile BCI system supporting real-time artifact rejection, imaging of distributed cortical network dynamics, and inference of cognitive state with a 64-channel dry-electrode wireless EEG headset. I will also briefly outline Qusp's vision of enabling easy integration of advanced bio-signal processing methods into diverse everyday applications. I will discuss and demonstrate applications of NeuroScale - a cloud-based software platform, providing continuous real-time interpretation of brain and body signals through an Internet API - as well as Neuropype - a Python-based graphical software environment for rapid design and deployment of pipelines for (real time) bio-signal processing and machine learning.

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