BCL5

5th Workshop on Brain, Computation, and Learning

SP Arun

Professor,
Centre for Neuroscience,
Indian Institute of Science

30 June | 09:00 – 10:30
Faculty Hall

Neural basis of real-world vision

Abstract: Nearly all investigations of the neural basis of vision involve recording neural responses to images shown on a screen, while animals perform visual tasks while restrained to obtain stable eye tracking and brain recordings. This approach blinds us from knowing how the brain responds during real-world vision. Over the last few years, our lab has built a naturalistic environment to study neural activity during real-world vision, and recorded brain activity wirelessly while monkeys engaged in a variety of real-world natural behaviors as well as touchscreen-based tasks. I will describe how this approach has allowed us to build a systematic bridge between neural responses to images on a screen to neural activity during real-world vision.