



The remarkable capabilities of the brain

Open Your Mind Seminar

Friday, Nov 29 2019
1 pm – 2.30 pm

Institut Pierre-Gilles de Gennes
6 rue Jean Calvin
75005 Paris

Understanding the Brain with Computational Neuroscience and Neuromorphic Engineering

The brain is a complex information processing system that is difficult to comprehend following any one experimental and theoretical approach. Instead, it has yielded fascinating insights only when diverse techniques were applied to its study. The remarkable capabilities of the brain has also inspired enormous interest in replicating them in Neuromorphic hardware and software so as both to derive insights into and also benefit from replicating its functionality. In this talk I will address these topics focusing on the case of the auditory system and its applications to audio processing and recognition of speech, music, and the relevance of these applications to the understanding of language and music in the brain..

Shihab SHAMMA
Institute for Systems Research,
University of Maryland

