

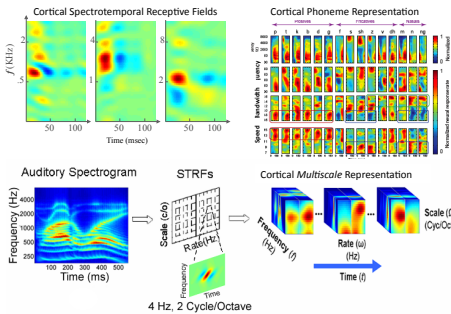
NEURAL SYSTEMS LABORATORY

Shihab Shamma, Jonathan Fritz, Patrick Kanold

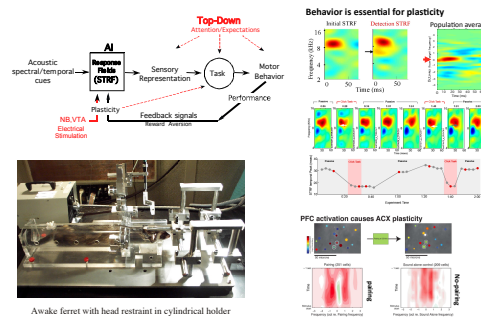
P.S.Krishnaprasad, Timothy Horiuchi, Jonathan Simon



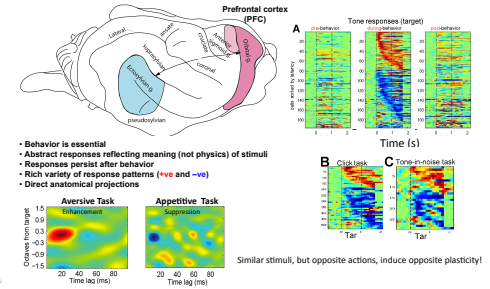
Cortical Physiology and Representations



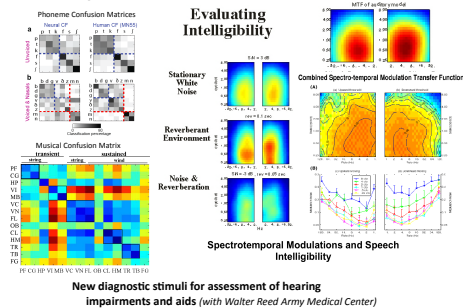
Attention & Cortical Plasticity



Neural Correlates of Decisions and Memory in PFC

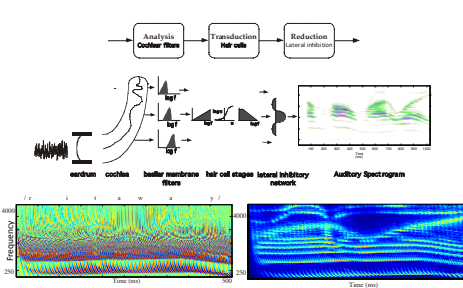


Psychoacoustic Assessments

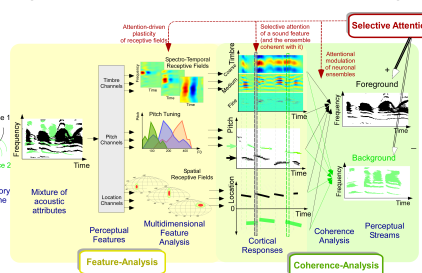


New diagnostic stimuli for assessment of hearing impairments and aids (with Walter Reed Army Medical Center)

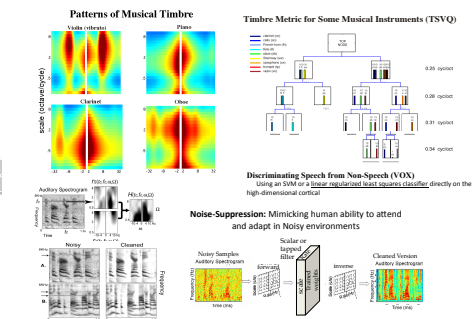
Early Auditory Processing



Temporal Coherence and Scene Analysis



Classifying, Detecting, Denoising



Integrated MEMS Sensors and aVLSI System Implementations

Intelligent MEMS sensors & tracking robots
Platform-noise reduction algorithms
Hybrid digital and analog neuromorphic circuits
Cochlear chips and real-time cortical DSP

