tor at UCL London and addresses optimality in the motor system. He worked on Heidelberg and Zürich. He got his Ph.D.

Theoretical studies of optimal auditory processing have used raw filters using ICA, and Lewicki and Sejnowski [18] showed the data and, therefore, must be carefully consid-

The distribution of the position and shape parameters for the all these three properties are also exhibited in STRFs obtained from various sound sources, it was possible to approximately learned filters for optimal spectrotemporal encoding of this.

The employed IPA speech database contains both male and from the low-frequency harmonics that are important for processing exhibited by neurons in the central auditory system,ing of the visual system. In particular, neurons in the primary characteristics of the Fourier transform vary as a function of the poral or the spectral axis. Figure 3b quantifies this selectivity rises above 2 Hz; furthermore, the cuto

Finally, a range of frequency modulations are seen in the middle of the STRF is shown. The factor of 1/8 was introduced to improve visibility of the data. (b) Both the peak (blue) and the high-frequency cuto 

A large number of independent component analysis als. First, most biological STRFs exhibit bandpass temporal

Finally, di