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A Sate-Space Model for Decoding Auditory Attentional Modulation from MEG in a Competing-Speaker Environment Sahar Akram^{1,2}, Jonathan Simon^{1,2,3}, Shihab Shamma^{1,2}, Behtash Babadi^{1,2} ¹Department of Electrical and Computer Engineering, ² Institute for Systems Reasearch, ³ Department of Biology University of Maryland, College Park, MD

The Inverse Solution
The Inverse Problem: Estimating
$$\Omega := \{\kappa_1, \kappa_{23}, \{z_k\}_{k=1}^{K}, \{\eta_k\}_{k=1}^{K}\}$$
, give
the observed data $\{\theta_{k,k,r}\}_{k,k,r=1}^{2,T,R}$ from R trials.
MAP Estimate: Maximize
 $\log g(\Omega | \{\theta_{k,k,r}\}_{k,k,r=1}^{2,K,R}] = \sum_{r,k=1}^{K} \log \left[\frac{\eta_k}{\pi h_0(\kappa_1)} \exp (\kappa_2 \cos (\theta_{1,k,r})) + \frac{1-\eta_k}{\pi h_0(\kappa_2)} \exp (\kappa_2 \cos (\theta_{2,k,r})) + \frac{1-\eta_k}{\pi h_0(\kappa_2)} \exp ($





Neural Information Processing Systems

