Neuronal Adaptation for Sampling-Based Probabilistic Inference in Perceptual Bistability

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Funding: EPSRC, MRC, BBSRC

NIPS 2011 – T018
Perceptual bistability

Approximative probabilistic inference in the brain?

- Just neuronal adaptation?
Deep Boltzmann machine model
Adaptation and sampling

- Sampling algorithm: Rates-FPCD (Breuleux et al., 2011)
- Biological interpretation: neuronal adaptation!

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We examine:

- Temporal dynamics
- Necker cube & binocular rivalry
- Spatial attention
- Bonus: explicit depth modelling
- Full story & details: T018!