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Perception and Evolution

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To date, the most successful formal models of perception have been Bayesian and the most successful formal models of evolution have been Darwinian. If we want a formal model of perceptual evolution, it is only natural to bring Bayes and Darwin together. In this paper we attempt just that. The result is a clear and interesting set of mathematical problems that must be solved to obtain a rigorous and adequate theory of perceptual evolution.