

Energy Guided Diffusion for Generating Neurally Exciting Images

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Abstract

In recent years, most exciting inputs (MEIs) synthesized from encoding models of neuronal activity have become an established method to study tuning properties of biological and artificial visual systems. However, as we move up the visual hierarchy, the complexity of neuronal computations increases. Consequently, it becomes more challenging to model neuronal activity, requiring more complex models. In this study, we introduce a new attention readout for a convolutional data-driven core for neurons in macaque V4 that outperforms the state-of-the-art task-driven ResNet model in predicting neuronal responses. However, as the predictive network becomes deeper and more complex, synthesizing MEIs via straightforward gradient ascent (GA) can struggle to produce qualitatively good results and overfit to idiosyncrasies of a more complex model, potentially decreasing the MEI's model-to-brain transferability. To solve this problem, we propose a diffusion-based method for generating MEIs via Energy Guidance (EGG). We show that for models of macaque V4, EGG generates single neuron MEIs that generalize better across architectures than the state-of-the-art GA while preserving the within-architectures activation and requiring 4.7x less compute time. Furthermore, EGG diffusion can be used to generate other neurally exciting images, like most exciting natural images that are on par with a selection of highly activating natural images, or image reconstructions that generalize better across architectures. Finally, EGG is simple to implement, requires no retraining of the diffusion model, and can easily be generalized to provide other characterizations of the visual system, such as invariances. Thus EGG provides a general and flexible framework to study coding properties of the visual system in the context of natural images.¹

1 Introduction

From the early works of Hubel and Wiesel [1], visual neuroscience has used the preferred stimuli of visual neurons to gain insight into the information processing in the brain. In recent years, deep learning has made big strides in predicting neuronal responses [2–15] enabling *in silico* stimulus synthesis of non-parametric most exciting inputs (MEIs) [16–18]. MEIs are images that strongly drive a selected neuron and can thus provide insights into its tuning properties. Up until now, they

¹The code is available at <https://github.com/sinxlab/energy-guided-diffusion>

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Scott Dunning, Larry S. Katz



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The Canadian Renewable Energy Guide Solar Energy Society of Canada,1999 Federal Energy Regulatory Commission Reports United States. Federal Energy Regulatory Commission,2005-10 **Energy Calculations and Problem Solving Sourcebook** Scott Dunning,Larry S. Katz,2020-11-27 Based on the Body of Knowledge this book is designed to serve as a practical guide for energy professionals preparing to take AEE s Certified Energy Manager CEM examination The reference presents an overview of the specific areas of expertise referenced in the current Body of Knowledge in a guided preparatory format including detailed specifically targeted reference materials The full scope of energy calculations and problem solving strategies which must be mastered are presented covering relevant codes and standards energy accounting and economics electrical lighting and HVAC systems motors and drives industrial systems building envelope building automation and control systems renewable energy boiler and steam systems thermal storage maintenance commissioning alternative financing and much more Green Building LEED and Energy Star programs are also addressed The appendix provides a broad range of useful reference tables as well as mathematical formulas specific to each specific area of energy management addressed While aimed at those taking the ANSI certified CEM exam this text is also an excellent reference to be used throughout an energy manager s professional career **Energy-Efficiency Standards and Green Building Certification Systems Used by the Department of Defense for Military Construction and Major Renovations** Committee to Evaluate Energy-Efficiency and Sustainability Standards Used by the Department of Defense for Military Construction and Repair,Board on Infrastructure and the Constructed Environment,Division on Engineering and Physical Sciences,National Research Council,2013-06-18 Congress has an ongoing interest in ensuring that the 500 000 buildings and other structures owned and operated by the Department of Defense DOD are operated effectively in terms of cost and resource use Section 2830 of the National Defense Authorization Act for fiscal year requires the Secretary of Defense to submit a report to the congressional defense committees on the energy efficiency and sustainability standards used by DOD for military construction and major renovations of buildings DOD s report must include a cost benefit analysis return on investment and long term payback for the building standards and green building certification systems including A American Society of Heating Refrigerating and Air Conditioning Engineers ASHRAE Standard 189 1 2011 for the Design of High Performance Green Buildings Except Low Rise Residential B ASHRAE Energy Standard 90 1 2010 for Buildings Except Low Rise Residential C Leadership in Energy and Environmental Design LEED Silver Gold and Platinum certification for green buildings as well as the LEED Volume certification D Other American National Standards Institute ANSI accredited standards DOD s report to the congressional defense committees must also include a copy of DOD policy prescribing a comprehensive strategy for the pursuit of design and building standards across the department that include specific energy efficiency standards and sustainable design attributes for military construction based on the cost benefit analysis return on

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