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Neural engineering : computation, representation, and dynamics in neurobiological systems / Chris Eliasmith and C. H. Anderson. p. cm. – (Computational neuroscience) “A Bradford book.” Includes bibliographical references and index. ISBN 0-262-05071-4 (hc.) 1. Neural networks (Neurobiology) 2. Neural networks (Computer science) 3.

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This award supports research to model cortical computation with recurrent neural networks. 2020 Aug: Jonathan was selected for a Brain & Behavior Research Foundation Young Investigator Grant. This award supports research to find neural population representations of threat in the brainstem.

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Minor in Neural Computation and Engineering | Center for ...

To understand properties of neural system activity, engineers use signal processing techniques and computational modeling (Eliasmith & Anderson 2003). To process these signals, neural engineers must translate the voltages across neural membranes into corresponding code, a process known as neural coding.

Neural engineering - Wikipedia

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(PDF) Neural computation with efficient population codes

One key problem in computational neuroscience and neural engineering is the identification and modeling of functional connectivity in the brain using spike train data. To reduce model complexity, alleviate overfitting, and thus facilitate model interpretation, sparse representation and estimation of functional connectivity is needed.

Identification of Sparse Neural Functional Connectivity ...

In *Neural Engineering*, Chris Eliasmith and Charles Anderson provide a synthesis of the disparate approaches current in computational neuroscience, incorporating ideas from neural coding, neural computation, physiology, communications theory, control theory, dynamics, and probability theory.

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