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Explaining activity

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observed in neurological disorders and cognitive tasks. Other articles in this Research Topic relate to the use of field models to explain aberrant neural activity and dynamics recorded during cognitive tasks: Kerr et al. integrate field and network models in a multiscale model. This allows the authors to reveal alterations in cortical information flow

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between normal ...

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Neural masses and fields: modeling the dynamics of brain ...

The NMM and MFM. In DCM, the first biophysical model of ensemble activity to receive the three-letter acronym “NMM” was described in Marreiros et al. (2008, 2009). These models parameterize neuronal dynamics at the level of a single neuron and

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employ density-based flow (the time derivative of neural activity) mechanics to represent the dynamics of a population of neurons.

Neural masses and fields in dynamic causal modeling

Neural Masses and Fields in Dynamic Causal Modeling

Rosalyn Moran et al.

Front Comput Neurosci.

2013. Free PMC article

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2013 May 28;7:57. doi:
10.3389/fncom.2013.0
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activity. Impact Factor

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More on impact > ...

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Frontiers | Neural masses and fields: modeling the ...

Neural masses and fields Neural mass models are a particular case of neural fields, where the (hidden neuronal) states of populations of neurons are functions of time only. Such models can generate temporal responses from one or

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several interconnected populations and have been used

Neural Masses And Fields In Dynamic Causal Modeling

Dynamic causal modeling (DCM) provides a framework for the analysis of effective connectivity among neuronal subpopulations that subtend invasive (electrocorticograms and local field

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potentials) and non-invasive (electroencephalography and magnetoencephalography) electrophysiological responses. This paper reviews the suite of neuronal population models including neural masses, fields and ...

Frontiers | Neural masses and fields in dynamic causal ...

3 review and also Nunez, 1995, 1996;

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Nunez et al., 2006;

Lopes da Silva and
Storm

Neural Fields, Masses and Bayesian Modelling

It is important to mention the similarity to neural mass models, which neglect spatial extensions but involve the same underlying assumptions on population coding and time-graining. Beurle (1956) and Wilson &

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Cowan (1972, 1973) were among the first who have derived mathematically the neural field model equations. ... Neural field models are ...

Neural fields - Scholarpedia

Hence, at a first pass, this neural mass model captures the mean-field response of the microscopic ensemble to a simulated sensory stimulus. What is lost

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in the neural mass model? In this model, activity transits quickly from a noise-perturbed fixed point to large amplitude nonlinear oscillations. A brief, rapid periodic transient is evident at ...

The Dynamic Brain: From Spiking Neurons to Neural Masses ...

neural ensemble modeling in health and disease; namely,

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decision- making,
auditory scene
analysis, and absence
seizures. A summary of
the notation for all the
main dynamical
variables

The Dynamic Brain: From Spiking Neurons to Neural Masses ...

In general, mean field
models of neural
activity can be divided
into two classes: neural
mass and neural field

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models.

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**(PDF) Neural Masses
and Fields:**

**Modelling the
Dynamics of ...**

Neural masses and
fields: modeling the
dynamics of brain
activity. Frontiers in
Computational

Neuroscience, 8, doi: 1
0.3389/fncom.2014.00

149. Abstract. This
technical note
introduces a
conductance-based

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Dynamic Coupled Modeling
neural field model that combines biologically realistic synaptic dynamics—based on transmembrane currents—with neural field equations ...

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Specifically, we consider neural masses as a special case of neural fields, when conduction times tend to zero and focus on

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two exemplar models of cortical microcircuitry; namely, the Jansen-Rit and the canonical microcircuit model .

**Neural Fields,
Masses and
Bayesian Modelling |
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For M/EEG, neural mass and neural field models in particular are used, to support the analysis by quantifying the temporal and spatial

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Modeling

temporal evolution of macroscopic brain activity, using physiologically plausible dynamics. In DCM; as implemented in the SPM soft-ware (Litvak et al., 2011), neural mass and field models are used

Neural masses and fields in dynamic causal modeling

This paper reviews the suite of neuronal population models

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including neural masses, fields and conductance-based models that are used in DCM. These models are expressed in terms of sets of differential equations that allow one to model the synaptic underpinnings of connectivity.

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A few software packages are available

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to model neural masses and neural fields: developed a neuroinformatics

platform for large-scale brain modeling in terms of a network of linked neural masses

with anatomically specified cortical geometry , long-range connectivity, and local short-range

connectivity that approximates the continuum limit when it is Gaussian and

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homogeneous .

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NFTsim: Theory and

Simulation of

Multiscale Neural

Field ...

The main difference between these classes is that field models prescribe how a quantity characterizing neural activity (such as average depolarization of a neural population) evolves over both space and time as opposed to mass

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models, which characterize activity over time only; by assuming that all neurons in a population are located at (approximately) the same point.

Neural Masses and Fields: Modelling the Dynamics of Brain ...

The Dynamic Brain:
From Spiking Neurons
to Neural Masses and
Cortical Fields Kindle
Edition by Various

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