

# Validating Neuro-Computational Models Of Neurological And Psychiatric Disorders (Springer Series In Computational Neuroscience)

These computational models are used to frame hypotheses that the biological signatures in neurological and standards for validation methods

<http://www.alphagalileo.org/ViewItem.aspx?CultureCode=en&ItemId=132723>

web site for CNS\*2013. Neuro-computational Models of Neurological and Series in Computational Neuroscience. Workshop organizers

<http://www.cnsorg.org/cns-2013-workshops-program>

In: "Validating neuro-computational models in neurological and psychiatric disorders" (eds.) Encyclopedia of Computational Neuroscience, Vol. 1, pp. 365 -366, Springer New York Heidelberg Dordrecht London. .

Scholkopf B, Grosse- Wentrup M. (2009) Implicit Wiener series analysis of epileptic seizure recordings.

<https://epilepsylab.uchicago.edu/page/publications>

H. and Finkel, L. (1996) Computational approaches to neurological A computational model of spatial representations that Archives of Neurology

[http://link.springer.com/protocol/10.1007%2F978-1-59745-520-6\\_17](http://link.springer.com/protocol/10.1007%2F978-1-59745-520-6_17)

Nervous System Models to achieve a neurological related discuss aspects of the nervous system of computational modeling in the

[http://en.wikipedia.org/wiki/Nervous\\_system\\_network\\_models](http://en.wikipedia.org/wiki/Nervous_system_network_models)

Is a field that brings together experts in neuroscience, neurology, investigate problems in neurological and of published computational neuroscience models.

[http://en.wikipedia.org/wiki/Computational\\_neuroscience](http://en.wikipedia.org/wiki/Computational_neuroscience)

Neurological Surgery Neurological Surgery; Neurology; Neurosciences Seminars; Pharmacological Sciences; Psychiatry; Psychology; Find A Doctor; Request An Appointment;

<http://neuro.stonybrookmedicine.edu/research/neurological-surgery>

Affiliation: Department of Neurology, Weill Cornell Medical College, New York, We define a set of desiderata, including brainwide coverage; validated and . The development of animal models that mimic neuropsychiatric disorders at the . and computational techniques based on correlations in measured time series

<http://journals.plos.org/ploscompbiol/article?id=10.1371/journal.pcbi.1000334>

Amrita Center for Computational Neuroscience has been instituted to comprehend the brain and its neural circuits by devising mathematical models.

<https://www.amrita.edu/center/compneuro/about>

This is hardly acceptable for the reproduction of a computational model that validating, sharing and reproducing results, computational neuroscience still lags behind. de Neurophysique, Physiologie et Pathologies, Universit Paris Descartes, .. Neuroscience", Springer Series in Computational Neuroscience, Vol.

<http://journal.frontiersin.org/article/10.3389/fncom.2015.00030/full>

Validating Neuro-Computational Models of Neurological and Discovery and validation of biomarkers based on computational models of normal and pathological

<http://scholar.google.com/citations?user=0pTp0j4AAAAJ&hl=en>

Jan 31, 2013 Computational neuroscience and bioinformatics can play a major role in this functional connection. Brain disorders affect some 16 million American adults [ 1], impairing . of potential pharmacological targets in neurology and psychiatry will . This model was previously validated against a number of

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3560392/>

Interests of the Bullock lab are focused on the use of integrated computational models of local circuits and motor symptoms in neurological

<http://www.bu.edu/neuro/graduate/training/computational/>

Jan 12, 2011 2 Computational Neuroscience Laboratory, Department of 4 Department of Neurology, SRM Medical College Hospital and Research Centre, Furthermore, this network model helps to understand the common These identified disease- disease interactions were further validated by interaction score.

<http://www.biomedcentral.com/1752-0509/5/6>

Neuroscience is the scientific study of the nervous system. . due to advances in molecular biology, electrophysiology, and computational neuroscience. . Neurology, psychiatry, neurosurgery, psychosurgery, anesthesiology and pain Psychiatry focuses on affective, behavioral, cognitive, and perceptual disorders.

<https://en.wikipedia.org/wiki/Neuroscience>

Computational Models of Dementia and Neurological Problems By: W odzis aw Duch 1 . Abstract:

Computational modeling, although still in its infancy,

[http://www.springerprotocols.com/Abstract/doi/10.1007/978-1-59745-520-6\\_17](http://www.springerprotocols.com/Abstract/doi/10.1007/978-1-59745-520-6_17)

Computational Models of Dementia and Neurological Problems Computational models based on correct principles Controlling Mobile Robots with Distributed Neuro

<http://citeseerx.ist.psu.edu/showciting?cid=691940>

Jul 8, 2015 Computational Psychiatry: towards a mathematically informed We describe how computational models of cognition can infer the current Finally, we review some of Computational Psychiatry's applications to neurological disorders, .. in which a series of identical tones is followed by a deviant (oddball)

<http://jnnp.bmj.com/content/early/2015/07/08/jnnp-2015-310737.full>

Bhattacharya, Basabdatta and Chowdhury, Fahmida (2015) Validating neuro-computational models of neurological and psychiatric disorders. Computational Neuroscience .

<http://eprints.lincoln.ac.uk/17251/>

Jul 15, 2015 "Development and validation of machine learning techniques to Computational models of neurodegenerative disease progression . . Insitute of Neurology and MIG and is supervised by Dr Olga Ciccarelli and Prof. .. Summary: Schizophrenia is a severe psychiatric disease which . Springer, 327- 344.

<http://mig.cs.ucl.ac.uk/index.php?n=Main.Projects>

COMPUTATIONAL NEUROLOGY AND PSYCHIATRY: Computational models mimicking brain structures and functions are increasingly being adopted to interpret neurological and

<https://sites.google.com/site/bsenbhattacharya/Home/latest-activities/worshop-at-ijcnn-2015>

Computational neurology and psychiatry: do we need it? . Theory and (Mostly) Systems Biological Applications (Springer Series in Synergetics) . Lever CP: Discovery and validation of biomarkers based on computational models of In: Validating Neuro-Computational Models of Neurological and Psychiatric Disorders.  
<http://www.kzoo.edu/~perdi/>

This book should also be useful as a user manual for making biophysically detailed computational models of neuro .11.2008.01.029. more Validating Neuro  
<http://amrita.academia.edu/ShyamDiwakar>

Springer Series in Computational Neuroscience models of neurons and neural networks, Validating Neuro-Computational Models of Neurological and Psychiatric  
[http://www.springer.com/cda/content/document/productFlyer/productFlyer\\_8164.pdf?SGWID=0-0-1297-173816003-0](http://www.springer.com/cda/content/document/productFlyer/productFlyer_8164.pdf?SGWID=0-0-1297-173816003-0)

Research involves the development and analysis of computational models in order to study synaptic Publications at Computational Neuroscience & Neurophysiology. Home;  
<https://www.amrita.edu/center/compneuro/publications>

Esther Mondragon;] -- "This book argues that computational models in to neuro-psychological models and computational models\_neurological  
<http://www.worldcat.org/title/computational-neuroscience-for-advancing-artificial-intelligence-models-methods-and-applications/oclc/606788504>

This book is a collection of articles by leading researchers working at the cutting edge of neuro-computational modelling of neurological and psychiatric disorders.  
<http://www.springer.com/us/book/9783319200361>

The concept of neurological and psychiatric disorders as dynamical diseases Computational models: from basic neuroscience to neuropharmacology . patients with Parkinson's disease display EEG series with a greater complexity than .. Jung, P., eds (2003) Epilepsy as a Dynamical Disease, Springer-Verlag; 14Stam,  
[http://www.cell.com/trends/pharmacological-sciences/fulltext/S0165-6147\(06\)00078-2](http://www.cell.com/trends/pharmacological-sciences/fulltext/S0165-6147(06)00078-2)

in "Validating Neuro-Computational Models of Neurological and Psychiatric in "Validating Neuro-Computational Models of Neurological and Psychiatric  
[http://www.academia.edu/11996159/Shyam\\_Diwakar\\_Computational\\_Modeling\\_of\\_Neuronal\\_Dysfunction\\_at\\_Molecular\\_Level\\_Validates\\_the\\_Role\\_of\\_Single\\_Neurons\\_in\\_Circuit\\_Functions\\_in\\_Cerebellum\\_Granule\\_Layer\\_in\\_Validating\\_Neuro-Computational\\_Models\\_of\\_Neurological](http://www.academia.edu/11996159/Shyam_Diwakar_Computational_Modeling_of_Neuronal_Dysfunction_at_Molecular_Level_Validates_the_Role_of_Single_Neurons_in_Circuit_Functions_in_Cerebellum_Granule_Layer_in_Validating_Neuro-Computational_Models_of_Neurological)

and discuss the potential impact of computational neurology on {Computational Approaches to Neurological Computational models have  
<http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.51.7860>

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