



**Name: Tassos BEZERIANOS**

Designation: Research Professor

Office Address: Singapore Institute for  
Neurotechnology, 28 Medical dr. #05-Corr  
129800 Singapore

Contact details: email: [lsiba@nus.edu.sg](mailto:lsiba@nus.edu.sg)

Personal website: [CogEn](#), [BioSignal](#)



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## MAJOR RESEARCH INTERESTS

- Neuroinformatics
- Systems Medicine and Bioinformatics
- Biosignal Processing and Analysis
- Cognitive Neuroengineering

## SELECTED PUBLICATIONS

1. [Cognitive Workload Assessment Based on the Tensorial Treatment of EEG Estimates of Cross-Frequency Phase Interactions](#)

SI Dimitriadis, Y Sun, K Kwok, NA Laskaris, N Thakor, A Bezerianos  
Annals of biomedical engineering, 1-13, 2014

2. [Disrupted Functional Brain Connectivity and Its Association to Structural Connectivity in Amnesic Mild Cognitive Impairment and Alzheimer's Disease](#)

Y Sun, Q Yin, R Fang, X Yan, Y Wang, A Bezerianos, H Tang, F Miao, ...  
PloS one 9 (5), e96505, 2014

3. [Functional cortical connectivity analysis of mental fatigue unmasks hemispheric asymmetry and changes in small-world networks](#)

Y Sun, J Lim, K Kwok, A Bezerianos  
Brain and cognition 85, 220-230

4. [Chimera States in Networks of Nonlocally Coupled Hindmarsh–Rose Neuron Models](#)

J Hizanidis, VG Kanas, A Bezerianos, T Bountis  
International Journal of Bifurcation and Chaos 24 (03), 2014

5. [Tamoxifen integromics and personalized medicine: Dynamic modular transformations underpinning response to tamoxifen in breast cancer treatment](#)

K Dimitrakopoulou, GN Dimitrakopoulos, KN Sgarbas, A Bezerianos  
Omics: a journal of integrative biology 18 (1), 15-33, 2014

6. [OLYMPUS: An automated hybrid clustering method in time series gene expression. Case study: Host response after Influenza A \(H1N1\) infection](#)

K Dimitrakopoulou, AG Vrahatis, E Wilk, AK Tsakalidis, A Bezerianos  
Computer methods and programs in biomedicine 111 (3), 650-661, 2013

7. [Connectivity analysis as a novel approach to motor decoding for prosthesis control](#)  
HL Benz, H Zhang, A Bezerianos, S Acharya, NE Crone, X Zheng, ...  
Neural Systems and Rehabilitation Engineering, IEEE Transactions on 20 (2 ), 143-152, 2012
  
8. [Growing functional modules from a seed protein via integration of protein interaction and gene expression data](#)  
IA Maraziotis, K Dimitrakopoulou, A Bezerianos  
Bmc Bioinformatics 8 (1), 408, 2007
  
9. [Time-dependent entropy estimation of EEG rhythm changes following brain ischemia](#)  
A Bezerianos, S Tong, N Thakor  
Annals of Biomedical Engineering 31 (2), 221-232, 2003
  
10. [Novel Bayesian multiscale method for speckle removal in medical ultrasound images](#)  
A Achim, A Bezerianos, P Tsakalides  
Medical Imaging, IEEE Transactions on 20 (8), 772-783, 2001