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Education

2004 – untill now - PhD program, Bioinformatics, University of São Paulo, USP, Brazil.

Advisor: Koichi Sameshima .

Fellowship: Coordenação de Aperfeiçoamento de Pessoal de Nível Superior, CAPES, Brazil.

Keywords: Granger Causality; Partial Directed Coherence; Epilepsy; Connectivity.

2004 – untill now - Applied and Computational Mathematics (undergraduate).

University of São Paulo, USP, Brazil.

1998 – 2003 – MD, School of Medicine, University of São Paulo, USP, Brazil.

Fellowship: Conselho Nacional de Desenvolvimento Científico e Tecnológico, CNPQ, Brazil.

Publications

Complete Articles in Journals

1. Takahashi, D. Y. ; Bacalá, L A ; Sameshima, K . Connectivity inference via partial directed coherence. *Journal Of Applied Statistics*, 2006, Accepted for publication.
2. Sato, R S, Takahashi, D Y, Cardoso, E F, Martin, M G M, Amaro Jr, E, and Morettin, P A, Intervention Models in Functional Connectivity Identification Applied to fMRI, *International Journal of Biomedical Imaging*, vol. 2006, Article ID 27483, 7 pages, 2006. doi:10.1155/IJBI/2006/27483
3. Sato, J R ; Felix, M de M ; Takahashi, D. Y. ; Amaro Jr, E ; Brammer, M J ; Morettin, P A . A method to produce evolving functional connectivity maps during the

course of an fmri experiment using wavelet based time-varying granger causality. *Neuroimage*, v. 31, p. 187-196, 2006.

4. Nitrini, R ; Caramelli, P ; Herrera, E ; Castro, I de ; Bahia, V S ; Anghinah, R ; Caixeta, L ; Radanovic, M ; Charchat-Fichman, H ; Porto, C S ; Carthery, M T ; Hartmann, A P B J ; Huang, N ; Smid, J ; Lima, E P ; Takahashi, D. Y. ; Takada, L T. Mortality from dementia in a community-dwelling brazilian population . *International Journal Of Geriatric Psychiatry*, v. 20, n. 3, p. 247-253, 2005.

5. Anghinah, R ; Caramelli, P ; Takahashi, D. Y. ; Nitrini, R ; Sameshima, K . EEG alpha band coherence analysis in healthy adults: preliminary results . *Arquivos Brasileiros de Neuropsiquiatria*, v. 63, n. 1, p. 83-86, 2005.

6. Nitrini, R ; Caramelli, P ; Herrera, E ; Bahia, V S ; Caixeta, L ; Radanovic, M ; Anghinah, R ; Charchat-Fichman, H ; Porto, C S ; Carthery, M T ; Hartmann, A P B J ; Huang, N ; Smid, J ; Lima, E P ; Takada, L T ; Takahashi, D. Y. . Incidence of dementia in a community-dwelling brazilian population. *Alzheimer Disease And Associated Disorders*, v. 18, n. 4, p. 241-246, 2005.

7. Sameshima, K ; Takahashi, D. Y. ; Baccalá, L A . Avaliando a complexidade da dinâmica cardiovascular por entropia amostral. *Revista Brasileira de Hipertensão*, v. 12, n. 1, p. 27-32, 2005.

8. Costa, G G O da ; Ctenas, B B ; Takahashi, D. Y. ; Mion, O ; Mello Jr, Joao F ; Butugan, O . Comparação entre a rinometria acústica, 'peak flow' nasal inspiratório e sua correlação com sintomas e sinais clínicos de rinite. *Arquivos de Otorrinolaringologia*, v. 9, n. 3, p. 203-211, 2005.

9. Hartmann, A P B J ; Almeida, S M de ; Livramento, J A ; Nitrini, R ; Takahashi, D. Y. ; Caramelli, P . Hyperphosphorylated tau protein in the cerebrospinal fluid of patients with alzheimer's disease and other dementias: preliminary findings. *Arquivos de Neuro-Psiquiatria*, v. 62, n. 3b, p. 751-755, 2004.

Book Chapters

1. Baccalá, L A ; Takahashi, D. Y. ; Sameshima, K . Computer intensive testing for the influence between time-series. in: Wilterhalter; Schelter; Timmer. (org.). *Handbook of Time Series Analysis* , In Press, Weinheim: Wiley-VHC Verlag, 2006, v. , p. -.

2. Sameshima, K ; Takahashi, D. Y. . *Métodos Quantitativos em Medicina*. In: Eduardo Massad; Renee Xaviera Menezes; Paulo Silveira. (org.). São Paulo: Manole, 2003, v. 1, p. 483-515.

3. Takahashi, D. Y. ; Charchat, H. ; Nitrini, R ; Caramelli, P ; Sameshima, K . Exploração de redes neurais artificiais no auxílio ao diagnóstico neuropsicológico da doença de alzheimer. . in: Jair Amiro Abe. (org.). *Anais do I Congresso de Lógica Aplicada à Tecnologia - LAPTEC*. 1 ed. São Paulo: Plêiade, 2000, v. 1, p. 359-371.

Honors

2006 - I LASCON - Best work and presentation award, I LASCON - Latin American School on Computational Neuroscience (IBRO school).

2002 – Second place, Oswaldo Cruz Award – clinical area, XXI Congresso Médico Universitário.

1997 – Bronze Medal, Brazilian Mathematical Olympiad, Sociedade Brasileira de Matemática.