

## **Book and Journal articles published in the area of EEG analysis by Hojjat Adeli and his associates during 2003-2012**

### **Book**

Adeli, H. and Ghosh-Dastidar, S. (in corroboration with Nahid Dadmehr), *Automated EEG-based Diagnosis of Neurological Disorders - Inventing the Future of Neurology*, CRC Press, Taylor & Francis, Boca Raton, Florida, 2010

### **Journal Articles**

Adeli, H., Zhou, Z., and Dadmehr, N. (2003), "Analysis of EEG Records in an Epileptic Patient Using Wavelet Transform", *Journal of Neuroscience Methods*, Vol. 123:1, pp. 69-87. This is considered a seminal paper.

Adeli, H., Ghosh-Dastidar, S., and Dadmehr, N. (2005a) "Alzheimer's Disease and Models of Computation: Imaging, Classification, and Neural Models", *Journal of Alzheimer's Disease*, Vol. 7:3, pp. 187-199.

Adeli, H., Ghosh-Dastidar, S., and Dadmehr, N. (2005b) "Alzheimer's Disease: Models of Computation and Analysis of EEGs" *Clinical EEG and Neuroscience*, 36:3, pp. 131-140.

Ghosh-Dastidar, S., Adeli, H., and Dadmehr, N. (2006), "Voxel-based Morphometry in Alzheimer's Patients", *Journal of Alzheimer's Disease*, 10:4, 445-447.

Adeli, H., Ghosh-Dastidar, S., and Dadmehr, N. (2007), "A Wavelet-Chaos Methodology for Analysis of EEGs and EEG Sub-bands to detect Seizure and Epilepsy", *IEEE Transactions on Biomedical Engineering*, 54:2, pp. 205-211.

Ghosh-Dastidar, S. and Adeli, H. (2007), "Improved Spiking Neural Networks for EEG Classification and Epilepsy and Seizure Detection," *Integrated Computer-Aided Engineering*, 14:3, pp. 187-212.

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Ghosh-Dastidar, S. and Adeli, H. (2009a), "Spiking Neural Networks," *International Journal of Neural Systems*, 19:4, pp. 295-308.

Ghosh-Dastidar S. and Adeli, H. (2009b) "A New Supervised Learning Algorithm for Multiple Spiking Neural Networks with Application in Epilepsy and Seizure Detection," *Neural Networks*, Vol. 22, pp. 1419-1431.

Ahmadlou, M. and Adeli, H. (2010), "Wavelet-Synchronization Methodology: A New Approach for EEG-based Diagnosis of ADHD," *Clinical EEG and Neuroscience*, Vol. 41, No. 1, PP. 1-10.

Ahmadlou, M., Adeli, H., and Adeli, A. (2010), "New Diagnostic EEG Markers of the Alzheimer's Disease Using Visibility Graph," *Journal of Neural Transmission*, 117:9, September, pp. 1099-1109.

Ahmadlou, M., Adeli, H., and Adeli, A. (2010), "Fractality and a Wavelet-Chaos-Neural Network Methodology for EEG-based Diagnosis of Autistic Spectrum Disorder," *Journal of Clinical Neurophysiology*, 27:5, October, pp. 328-333.

Ahmadlou, M. and Adeli, H. (2011), "Fuzzy Synchronization Likelihood with Application to Attention-Deficit/Hyperactivity Disorder," *Clinical EEG and Neuroscience*, Vol. 42, No. 1, 6-13.

Ahmadlou, A., Adeli, H., and Adeli, A. (2011), "Fractality and a Wavelet-Chao Methodology for EEG-based Diagnosis of Alzheimer's Disease," *Alzheimer Disease and Associated Disorders*, 25:1, pp. 85-92.

Sankari, Z. and Adeli, H. (2011a), "Probabilistic Neural Networks for EEG-based Diagnosis of Alzheimer's Disease Using Conventional and Wavelet Coherence," *Journal of Neuroscience Methods*, 197:1, pp. 165-170.

Sankari, Z., Adeli, H., Adeli, A. (2011b), "Intrahemispheric, Interhemispheric and Distal EEG Coherence in Alzheimer's Disease," *Clinical Neurophysiology*, 122:5, pp. 897-906.

Ahmadlou, M. and Adeli, H. (2011), "Functional Community Analysis of Brain: A New Approach for EEG-based Investigation of the Brain Pathology," *NeuroImage*, 2011, 58:2, September 2011, pp. 401-408.

Ahmadlou, M., Adeli, H., and Amir, A. "Graph Theoretical Analysis of Organization of Functional Brain Networks in ADHD," *Clinical EEG and Neuroscience*, 43:1, 2012, pp. 5-13.

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Sankari, Z., Adeli, H., and Adeli, A. (2012), "Wavelet Coherence Model for Diagnosis of Alzheimer's Disease," *Clinical EEG and Neuroscience*, 43:3, 2012.

Ahmadlou, M., Adeli, H., and Adeli, A. (2012) "Improved Visibility Graph Fractality with Application for Diagnosis of Autism Spectrum Disorder," *Physica A: Statistical Mechanics and its Applications*, 391:20, 2012, pp. 4720-4726.

Ahmadlou, M., Adeli, H., Adeli, A. (2012) "Fractality Analysis of Frontal Brain in Major Depressive Disorder," *International Journal of Psychophysiology*, 85, pp. 206-211.

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