Curriculum Vitae Junfeng Gao, Ph.D



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Objective

Research Scientist/ Postdoctoral Researcher position involving basic research/development and application of EEG/fMRI/fNIRS signal processing techniques and functional connectivity analysis of brain cognitive.

Research Interests

Research interests include linear and nonlinear signal processing techniques, functional connectivity analysis of brain cognitive, dynamic brain network analysis, and pattern recognition techniques.

Education Experience

09/02 - 06/05 **M.Sc** Computer software and theory, Wuhan University of Technology, China 09/07 - 03/11 **Ph.D** Biomedical Engineering, Xi'an Jiaotong University, China

Research and work Experience

10/13 - 03/15: Postdoctoral Researcher

University of Electronic Science and Technology of China

12/17- 12/18: Visiting Scholar in Psychiatry Department at Massachusetts General Hospital of Harvard Medical School

Publications (Journal Articles of SCI)

- 1. Junfeng Gao, Jian Song, Yong Yang et al., Deception Decreases Brain Complexity. IEEE Journal of Biomedical and Health Informatics. 2018.
- 2. Pan Lin⁺, Yong Yang, **Junfeng Gao⁺**, et al, Dynamic Default Mode Network across Different Brain States. Scientific Reports 2017, (SCI) IF: 5.228. (Co-first author)
- 3. Pan Lin, **Junfeng Gao**, Yong Yang, Jorge Jovicich, Xiang Wang, Chun S Zuo, Nicola De Pisapia. Mindfulness Training and Multimodal Neuroimaging for Mental Health. Science, Supp. 2017, 358(6370): 33-34, DOI: 10.1126/science.358.6370.1628-b, 2017.
- 4. Junfeng Gao, Yong Yang, Wen tao Huang, et al., Exploring time- and frequency-dependent functional connectivity and brain networks during deception with single-trial event-related potentials. Scientific Reports, 2016, 6: 37065
- 5. Sheng Ge, Qin Yang, Pan Lin, **Junfeng Gao**, et al., A Brain-Computer Interface Based on a Few-Channel EEGfNIRS Bimodal System. IEEE Access, 2017, 5: 208-218.
- 6. C Zhao, M Zhao, Y Yang, **Junfeng Gao**, et al. The Reorganization of Human Brain Networks Modulated by Driving Mental Fatigue. IEEE Journal of Biomedical & Health Informatics, 2016, 21(3):743-755.
- 7. Junfeng Gao, Hongjun Tian, Yong Yang et al., A Novel Algorithm to Enhance P300 in Single Trials: Application to Lie Detection Using F-score and SVM. PLOS ONE, 2014, 9(11): 1-15
- 8. Junfeng Gao, Zhao Wang, Yong Yang, et al., A Novel Approach for Lie Detection Based on F-score and Extreme Learning Machine. PLOS ONE, 2013, 8(6): 1-12
- 9. Junfeng Gao, Liang Lu, Yong Yang, et al. A Novel Concealed Information Test Method Based on Independent Component Analysis and Support Vector Machine [J]. CLINICAL EEG and NEUROSCIENCE, 2012, 43(1): 54-63
- 10. Junfeng Gao, Xiangguo Yan, Jiancheng Sun, Chongxun Zheng. Denoised P300 and machine learning-based concealed information test method [J]. Computer Methods and Programs in Biomedicine, 2011.104(3):410-417
- 11. Junfeng Gao, Yong Yang, Pan Lin, Pei Wang and Chongxun Zheng. Automatic Removal of Eye-movement and Blink Artifacts from EEG Signals. Brain Topography, 2010, 23 (1): 105-114.
- 12. Junfeng Gao, Chongxun Zheng and Pei Wang. Online Removal of Muscle Artifact from Electroencephalograms Signals Based on Canonical Correlation Analysis. CLINICAL EEG and NEUROSCIENCE, 2010, 41 (1): 53-59.
- Junfeng Gao, Pan Lin, Yong Yang, Pei Wang and Chongxun Zheng. Real-time Removal of Ocular Artifacts from EEG based on Independent Component Analysis and Manifold Learning. Neural Computing and Applications, 2010, 19 (8):1217-1226.
- 14. Junfeng Gao, Yong Yang, Jiancheng Sun, Gang Yu. Automatic Removal of Various Artifacts from EEG Signals Using Combined Methods [J]. Journal of Clinical Neurophysiology, 2010, 27 (5): 312-320.

Research Grants

- 1. 2017.01-2017.12. National Natural Science Foundation in China: Study on Lie Detection Technology based on EEGfNRI data fusion (Principal Investigator, 160000 RMB).
- 2013.01-2016.12. National Natural Science Foundation in China: Study on Lie Detection Technology based on Smallnumber Stimuli EEG Signals (Principal Investigator, 650000 RMB).
- 3. 2014.6-2015.6. Chinese Postdoctoral Science Foundation: Study on Lie Detection Technology based on Feature fusion of EEG-fMRI (Principal Investigator, 50000 RMB).
- 2011.10-2013.10. Chinese Postdoctoral Science Foundation: Study on Lie Detection Technology based on Smallnumber Stimuli EEG Signals (Principal Investigator, 30000 RMB).

Journal Reviewer

IEEE Trans on Biomedical Engineering IEEE Journal of Biomedical and Health Informatics Medical & Biological Engineering & Computing Neural Computing & Applications Biomedical Signal Processing & Control Clinical EEG & Neuroscience Computers in Biology and Medicine