
# Jing Jin

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## Profile

Dr Jin is a full professor and the chair of the department of automation in the East China University of Science and Technology. He is also IEEE Senior Member and a visiting scientist at RIKEN. He won the Second Class Prize of Shanghai in Nature Science (Rank first, 2018) and the “Shuguang” Project in 2019. He published more than 80 research papers in BCI related journals and conferences including International Journal of Neural Systems, IEEE Transactions on Neural Systems and Rehabilitation Engineering, Acta Automatica Sinica and International BCI Conference and Meeting. From 2015 to 2019, he was selected as Most Cited Chinese Researchers in the field of biomedical engineering.

He is the editorial board member of Neural Networks, Journal of Neural Engineering, Journal of Neuroscience Methods, Applied Science and Brain-Computer Interfaces, and the guest editor of Computational Intelligence and Neuroscience. He has served as the chairman and member of International BCI Conference and Meeting. He was named an outstanding reviewer for SCI journals and “Reviewer of the year” of IOP (2016).

## Research Field

Brain computer interface (BCI) and its application, Cognitive Neuroscience

## Research results and selected published papers

the Second Class Prize of Shanghai in Nature Science (Rank first, 2018)
the “Shuguang” Project of Shanghai (2019)


1. Jing Jin*, Yangyang Miao, Ian Daly, Cili Zuo, Dewen Hu, Andrzej Cichocki. Correlation-based channel selection and regularized feature optimization for MI-based BCI. Neural Networks, 2019, 118:262-270.
2. Jing Jin*, Hanhan Zhang, Ian Daly, Xingyu Wang, Andrzej Cichocki. An improved P300 pattern in BCI to catch user’ s attention. Journal of neural engineering, 2017, 14(3): 036001.
3. Jing Jin*, Eric W Sellers, Sijie Zhou, Yu Zhang, Xingyu Wang, Andrzej Cichocki. A P300 brain–computer interface based on a modification of the mismatch negativity paradigm. International Journal of Neural Systems, 2015, 25(3): 1550011.
4. Jing Jin*, Ian Daly, Yu Zhang, Xingyu Wang, Andrzej Cichocki. An optimized ERP brain–computer interface based on facial expression changes. Journal of Neural Engineering, 2014, 11(3): 036004.
5. Jing Jin*, Brendan Z Allison, Yu Zhang, Xingyu Wang, Andrzej Cichocki. An ERP-based BCI using an oddball paradigm with different faces and reduced errors in critical functions. International Journal of Neural Systems, 2014; 24(8), 1450027.
6. Jiankui Feng, Jing Jin*, Daly Ian, Jiale Zhou, Yugang Niu, Xingyu Wang, Cichocki Andrzej. An Optimized Channel Selection Method Based on Multifrequency CSP-Rank for Motor Imagery-Based BCI System. Computational Intelligence and Neuroscience, 2019:8068357.
7. Miaoji Guo, Jing Jin*, Yong Jiao, Xingyu Wang, Andrzej Cichockia. Investigation of Visual Stimulus With Various Colors and the Layout for the Oddball Paradigm in Evoked Related Potential-Based Brain-Computer Interface. Frontiers in computational neuroscience, 2019, 26; 13: 24.
8. Cili Zuo, Jing Jin*, Erwei Yin, Rami Saab, Yangyang Miao, Xingyu Wang, Dewen Hu, Andrzej Cichocki. Novel hybrid brain-computer interface system based on motor imagery and P300. Cognitive Neurodynamics. 2019. DOI: 10.1007/s11571-019-09560-x.
9. Yangyang Miao, Erwei Yin, Brendan Z. Allison, Yu Zhang, Yan Chen, Yi Dong, Xingyu Wang, Dewen Hu, Andrzej Chchocki, Jing Jin*. An ERP-based BCI with peripheral stimuli: validation with ALS patients, Cognitive Neurodynamics. 2019. DOI: 10.1007/s11571-019-09541-0.
10. Qianqian Liu, Yong Jiao, Yangyang Miao, Cili Zuo, Xingyu Wang, Andrzej Cichocki, Jing Jin*. Efficient representations of EEG signals for SSVEP frequency recognition based on deep multiset CCA. Neurocomputing, 2019. DOI: 10.1016/j.neucom.2019.10.049.
11. Jiankui Feng, Erwei Yin, Jing Jin*, Rami Saab, Ian Daly, Xingyu Wang, Dewen Hu, Andrzej Cichocki, Towards correlation-based time window selection method for motor imagery BCIs, Neural Network, 2018, 102:87-95.
12. Minqiang Huang, Jing Jin*, Yu Zhang, Dewen Hu, Xingyu Wang*, Usage of drip drops as stimuli in an auditory P300 BCI paradigm, Cognitive Neurodynamics, 2018, 12(1):85-94.
13. Zhaoyang Qiu, Brendan Z. Allison, Jing Jin*, Yu Zhang, Xingyu Wang*, Wei Li, Andrzej Cichocki, Optimized motor imagery paradigm based on imagining Chinese characters writing movement, IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25 (7):1009-1017.
14. Yu Zhang*, Yu Wang, Jing Jin*, Xingyu Wang, Sparse bayesian learning for obtaining sparsity of EEG frequency bands based feature vectors in motor imagery classification, 2016,International Journal of Neural systems, 2017, 27(2):1650032.
15. Jiao Chen, Jing Jin*, Xingyu Wang, Comparison of the BCI Performance between the Semitransparent Face Pattern and the Traditional Face Pattern, Computational Intelligence and Neuroscience, 2017: 2017:1323985.
16. Sijie Zhou, Jing Jin*, Ian Daly, Xingyu Wang, Andrzej Cichocki, Optimizing the face Paradigm of BCI system by modified Mismatch Negative paradigm, Frontiers in Neuroscience, 2016, 10:444.
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18. Zhaoyang Qiu, Jing Jin*, Hak-Keung Lam, Yu Zhang, Xingyu Wang*, Andrzej Cichocki, Improved SFFS method for channel selection in motor imagery based BCI. Neurocomputing, 2016. 27(26): 519–527.
19. Minqiang Huang, Ian Daly, Jing Jin*, Yu Zhang, Xingyu Wang*, Andrzej Cichocki, An exploration of spatial auditory BCI paradigms with different sounds: music notes versus beeps, Cognitive Neurodynamics, 2016: 10(3):201-9.
20. Long Chen, Jing Jin*, Ian Daly,Yu Zhang, Xingyu Wang*, Andrzej Cichocki, Exploring Combinations of Different Color and Facial Expression Stimuli for Gaze-Independent BCIs, Frontiers in Computational Neuroscience, 2016, 10(5): 5.
21. Long Chen, Jing Jin*, Yu Zhang, Xingyu Wang*, Andrzej Cichocki, A survey of the dummy face and human face stimuli used in BCI paradigm. Journal of Neuroscience methods, 2015; 239:18-27.
22. Mingjue Wang, Ian Daly, Brendan Z Allison, Jing Jin*, Yu Zhang, Lanlan Chen, Xingyu Wang, A new hybrid BCI paradigm based on P300 and SSVEP, Journal of Neuroscience methods, 2015; 244:16-25.