

所属学院 信息科学与工程学院

学科领域 控制科学与工程

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个人简介

金晶 教授，博士生导师，信息科学与工程学院 自动化系主任。IEEE Senior Member，日本理化学研究所访问科学家，获 2018 年上海市自然科学二等奖（第一完成人），2019 年入选上海市“曙光学者”。相关研究成果已在 International Journal of Neural Systems, IEEE Transactions on Neural Systems and Rehabilitation Engineering, 自动化学报等上发表论文 80 余篇，其中 SCI 期刊论文 40 余篇，2015-2019 年连续五年入选中国高被引学者榜。担任 Neural Networks, Journal of Neural Engineering 等知名 SCI 期刊编委，脑-机接口专业期刊 Brain Computer Interfaces 副编。担任 2017 年国际脑-机接口大奖 (BCI Award) 评审委员会委员（亚洲 2 人），以及美国 International BCI meeting, 欧洲 International BCI Conference 和 IEEE SMC 会议等多个脑-机接口领域重要国际会议和研讨会的主席，协主席和委员等。被评为 Journal of Neural Engineering 和 Biological Psychology 等 4 个 SCI 期刊的杰出审稿人，2016 年被选为英国物理学会 (IOP) 的“年度评审人”(中国至今入选 2 人)。

研究方向

脑机接口及其应用，认知神经科学。

研究成果及主要发表文章

2018 年上海市自然科学二等奖（第一完成人）；

2019 年上海市曙光计划

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.
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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 Cichocki. 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.
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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.
17. Sijie Zhou, Brendan Z Allison, Andrea Kübler, Andrzej Cichocki, Xingyu Wang*, Jing Jin*, Effects of background music on objective and subjective performance measures in an auditory BCI, Frontiers in Computational Neuroscience. 2016, 10(105).
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.
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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.