

Towards high performance and efficient brain computer interface character speller : convolutional neural network based methods Shan, H.

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List of Publications

1. Hongchang Shan, Yu Liu, and Todor Stefanov,

"A Simple Convolutional Neural Network for Accurate P300 Detection and Character Spelling in Brain Computer Interface",

In Proceedings of the 27th International Joint Conference on Artificial Intelligence (IJCAI'18), pp. 1604-1610, Stockholm, Sweeden, July 13-19, 2018.

2. Hongchang Shan, and Todor Stefanov,

"SLES: A Novel CNN-based Method for Sensor Reduction in P300 Speller," In *Proceedings of the 41st Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC'19)*, pp. 3026-3031, Berlin, Germany, July 23-27, 2019.

3. Hongchang Shan, and Todor Stefanov,

"A Novel Sensor Selection Method based on Convolutional Neural Network for P300 Speller in Brain Computer Interface",

The 56th ACM/IEEE Design Automation Conference (DAC'19) WIP session, Las Vegas, NV, USA, June 2-6, 2019.

4. Hongchang Shan, Yu Liu, and Todor Stefanov,

"Ensemble of Convolutional Neural Networks for P300 Speller in Brain Computer Interface",

In Proceedings of the 28th International Conference on Artificial Neural Networks (ICANN'19), pp. 376-394, Munich, Germany, September 17-19, 2019.

5. Hongchang Shan, Yu Liu, and Todor Stefanov,

"An Empirical Study on Sensor-aware Design of Convolutional Neural Networks for P300 Speller in Brain Computer Interface,"

In Proceedings of "12th IEEE International Conference on Human System Interaction (IEEE HSI'19)", pp. 5-11, Richmond, Virginia, USA, June 25-27, 2019