

Published Paper List

Jianting CAO

更新日：2025/2/27

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- (356) Ran Zhang, Linfeng Sui, Chengyuan Shen, Lichuan Xu, Jianting Cao: “EEG-based real-time BCI system using drones for attention visualization,” *Computer Methods in Biomechanics and Biomedical Engineering*, 2024, doi: <https://doi.org/10.1080/10255842.2025.2459272>.

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- (355) Jinsha Liu, Boning Li, Takaharu Yamazaki, and Jianting Cao: “Developing an SSVEP-Based BCI System for Multi-Objective Control via IoT Integration,” in *IEEE Access*, vol. 12, pp. 186586-186596, 2024, doi: <https://doi.org/10.1109/ACCESS.2024.3472909>.
- (354) Boning Li, Jinsha Liu, Tao Zhang, Yang Cao and Jianting Cao: “Quantitative analysis and machine learning-based interpretation of EEG signals in coma and brain-death diagnosis,” *Cognitive Neurodynamics*, 2024 Oct;18(5):2947-2962. doi: <https://doi.org/10.1007/s11571-024-10131-y>. Epub 2024 Jun 6. PMID: 39555272; PMCID: PMC11564597.
- (353) Ran Zhang, Linfeng Sui, Chengyuan Shen, and Jianting Cao: “A multidimensional EEG feature extraction attention detection for BCI System,” *International Journal of Computers & Technology*, 24, 71–83. <https://doi.org/10.24297/ijct.v24i.9638>
- (352) Chengyuan Shen, Yasue Mitsukura, and Jianting Cao: “A Novel Complexity Algorithm for Quantification of Consciousness Levels,” in *IEEE Access*, vol. 12, pp. 118665-118672, 2024, doi: <https://doi.org/10.1109/ACCESS.2024.3445467>.
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- (349) Mo Xia, Xuyang Zhao, Rui Deng, Zheng Lu, and Jianting Cao: “EEGNet Classification of Sleep EEG for Individual Specialization Based on Data Augmentation,” *Cognitive Neurodynamics*, 2024,18(4):1539-1547. doi: <https://doi.org/10.1007/s11571-023-10062-0>
- (348) Ruixuan Chen, Linfeng Sui, Mo Xia, Jinsha Liu, Tao Zhang and Jianting Cao: “Convolutional Neural Networks for Deep Sleep Detection Based on Data Augmentation,” *International*

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- (347) Jingming Gong, Chengyuan Shen, and Jianting Cao. Classifying Consciousness States with Support Vector Machine. In Proceedings of the 2024 7th International Conference on Machine Learning and Machine Intelligence (MLMI) (MLMI '24). Association for Computing Machinery, New York, NY, USA, 66–71. <https://doi.org/10.1145/3696271.3696282>
- (346) Xin Ma, Jinsha Liu, Ruixuan Chen, Boning Li and Jianting Cao, "Design of an SSVEP-Based Brain-Controlled Robotic Arm Car System," 2024 4th International Conference on Computer Systems (ICCS), Hangzhou, China, 2024, pp. 146-150, <https://doi.org/10.1109/ICCS62594.2024.10795855>.
- (345) Ruixuan Chen, Linfeng Sui, Mo Xia, Jianting Cao, J. Deep Sleep Recognition Based on CNNs and Data Augmentation. In: *Maglogiannis, I., Iliadis, L., Macintyre, J., Avlonitis, M., Papaleonidas, A. (eds) Artificial Intelligence Applications and Innovations. AIAI 2024*. IFIP Advances in Information and Communication Technology, vol 714. Springer, Cham. https://doi.org/10.1007/978-3-031-63223-5_1 (2024)
- (344) Hongxi Xue, Mo Xia, Deng Rui, and Jianting Cao. "EEGNet Classification of Two Channels Sleep EEG for Individual Specialization Based on Data Augmentation", *2024 3rd Asia Conference on Algorithms, Computing and Machine Learning (CACML 2024)*, Pages 288 - 292 <https://doi.org/10.1145/3654823.3654876>.

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- (342) Li Zhu, Youyang Liu, Riheng Liu, Yong Peng, Jianting Cao, Junhua Li, Wanzeng Kong: "Decoding Multi-Brain Motor Imagery from EEG Using Coupling Feature Extraction and Few-Shot Learning," in *IEEE Transactions on Neural Systems & Rehabilitation Engineering*, 2023;31:4683-4692. doi: <https://doi.org/10.1109/TNSRE.2023.3336356>
- (341) Dongjun Liu, Weichen Dai, Hangkui Zhang, Xuanyu Jin, Jianting Cao, and Wanzeng Kong: "Brain-Machine Coupled Learning Method for Facial Emotion Recognition," *IEEE Transactions on Pattern Analysis and Machine Intelligence*, vol. 45, no. 9, pp. 10703-10717, 1 Sept. 2023, doi: <https://doi.org/10.1109/TPAMI.2023.3257846>.
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- (339) Xusheng Li, Dongying Ju, Jianting Cao and Kousuke Ishikawa: "Analysis of the Distortion of the Bearing Rings after Quenching", *Coatings* 2023, 13, 1190. <https://doi.org/10.3390/coatings13071190>.

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- (329) Mo Xia, Hongxi Xue, and Jianting Cao: “Classification of Sleep EEG Signals for Individual Specialization by 1D Deep Convolutional Network and Data Augmentation,” *The 13th International Conference on Information Science and Technology (ICIST 2023)*.pp. 187-194,doi: <https://doi.org/10.1109/ICIST59754.2023.10367106>

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- (326) Jinsha Liu, Boning Li and Jianting Cao: “SSVEP に基づいた高精度携帯掛ける BCI システムの実現”, 埼玉工業大学, 第21回 若手研究フォーラム, ISSN:1880-392X, pp. 62-63, August 2023
- (325) Zizhu Li and Jianting Cao: “開発した無線 DA コンバータを用いた P300 脳制御システム車椅子の設計と実装”, 埼玉工業大学, 第21回 若手研究フォーラム, ISSN:1880-392X, pp. 60-61, August 2023
- (324) Jingming Gong and Jianting Cao: “携帯型 EEG デバイスを用いたリアルタイムシステムの開発”, 埼玉工業大学, 第21回 若手研究フォーラム, ISSN: 1880-392X, pp. 56-57, August 2023
- (323) Ran Zhang and Jianting Cao: “Real-time Diagnostic System with Developed Dynamic 2TMD and Dynamic ApEn Algorithms,” 埼玉工業大学, 第21回 若手研究フォーラム, ISSN: 1880-392X, pp. 58-59, August 2023
- (322) Hongxi Xue, Mo Xia and Jianting Cao: “EEGNet Classification of Sleep EEG for Individual Specialization Based on Data Augmentation,” 埼玉工業大学, 第21回 若手研究フォーラム, ISSN:1880-392X, pp. 96-97, August 2023
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- (318) Qipeng Chen and Jianting Cao: “Simple Black-box adversarial attacks by Tensor Singular Value Decomposition,” *International Journal of Latest Trends in Engineering and Technology*, 20(4): 1-12, 2022.
- (317) Xuyang Zhao, Qibin Zhao, Toshihisa Tanaka, Jordi Solé-Casals, Guoxu Zhou, Takumi Mitsuhashi, Hidenori Sugano, Noboru Yoshida, Jianting Cao: “Classification of the Epileptic Seizure Onset Zone Based on Partial Annotation,” *Cognitive Neurodynamics*, <https://doi.org/10.1007/s11571-022-09857-4>, 2022.

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- (312) Pengju Zhang and Jianting Cao: “Enhanced effect of CBAM on CT image detection,” 埼玉工業大学, 第20回 若手研究フォーラム, ISSN: 1880-392X, pp. 68-69, August 2022
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