

Zhejiang Normal University Academic Research Ethics Review Approval Form

Applicant (Research Leader)	Chenglei Huang	Research Institution	College of Education, Zhejiang Normal University	Email	huangchenglei@ zjnu.edu.cn
Research Title	Unlocking Educational Insights: A Multi-Modal Dataset for Comprehensive Teacher Behavior Analysis in Offline Classrooms				
Research Team Members	Chenglei Huang, Jia Zhu, Yilong Ji, Weijie Shi, Hao Chen, Min Yang, Hanghui Guo, Jianxia Ling, Pasquale De Meo, Zilong Li, Zhangze Chen				
Research Abstract: <p>Teacher behavior analysis is essential for enhancing teaching quality and advancing educational development. However, publicly available datasets specifically focused on teacher behavior are scarce, hindering research in this domain. Existing datasets often rely on open course videos from the Internet, which lack the complexity and authenticity of real-world classroom environments and fail to capture teachers' behavioral patterns accurately. Here, we present MM-TBA, a comprehensive multi-modal dataset designed for analyzing teacher behavior in offline classroom settings. Specifically, we recorded 4,839 teaching videos and manually filtered approximately 32,000 seconds of footage, encompassing the instructional activities of over 300 trainee teachers. Based on these videos, we developed a teaching action detection sub-dataset for detecting teachers' temporal actions and an evaluation report sub-dataset for teacher lectures. Additionally, we constructed an instructional design sub-dataset. MM-TBA aims to fill existing gaps and promote scientific research on teacher behavior and cognitive science. We hope that MM-TBA will provide a new research tool for educational science, enabling interdisciplinary applications by combining artificial intelligence with educational technology.</p>					
The Applicant (Research Leader) pledges: <p>This research follows the ethical guidelines set by the Ethics Committee, ensuring the ethical and moral standards of the research and data, as well as the respect and protection of participants' rights. Before data collection, we obtained participants' informed consent and authorization through the Zhejiang Normal University Education Platform (http://smtedu.cn/), with explicit consent for the recording and use of their teaching videos. Participants fully understood and agreed to the platform's terms before uploading data, including an understanding of the use of data for research purposes. They are clearly informed that the data will be used for teaching analysis and scientific research, and the consent of other video participants has been obtained.</p> <p>All collected data will be processed in accordance with applicable data protection regulations to ensure the security of participants' personal information and privacy. Sensitive information has been filtered and anonymized through multiple layers to ensure that specific individuals cannot be identified, further protecting the identity of those involved.</p> <p>The dataset will be used solely for academic research and educational purposes, not for commercial use. The research team is committed to complying with relevant laws and regulations</p>					

to ensure the legal and proper use of the data. During the use of the data, regular reviews and evaluations will be conducted to ensure adherence to ethical standards.

Signature:

Date:

Approval Comments:

This research has implemented various data privacy and security protection measures, in compliance with the ethical guidelines and moral standards of academic research at this institution, and is hereby approved.

Seal:

Date: