

2026 International Conference on AI in Education Technology and Applications (AIETA 2026)

**Lanzhou, China
27-29 March 2026**

IEEE Catalog Number: CFP263BD-POD
ISBN: 979-8-3315-9328-5



Copyright © 2026, IEEE

All Rights Reserved

Copyright and Reprint Permissions:

Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

*** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.

IEEE Catalog Number:	CFP263BD-POD
ISBN (Print-On-Demand):	979-8-3315-9328-5
ISBN (Online):	979-8-3315-9327-8

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA

Phone:	(845) 758-0400
Fax:	(845) 758-2633
E-mail:	curran@proceedings.com
Web:	www.proceedings.com

TABLE OF CONTENTS

Research on English Writing Evaluation Patterns From a Human-Computer Collaborative Perspective	1
<i>Man Li</i>	
From Data to Decision-Making: Identifying Skill Gaps and Developing Targeted Training Strategies for Interns at Yunnan Land and Resources College Using NLP	5
<i>Jianchang Wang, Yingzheng Shen, Jing Cui, Hongliang Liu, Yufang Tang</i>	
Teaching Interest Classification Model for College Students Based on Artificial Intelligence Algorithm	12
<i>Xiang Liu, Xiao Zhou, Hongyan Fan, Heng Zhan</i>	
From Correlation to Intervention: A Survey on Log-Based Causal Analysis for Security and AIOps	16
<i>Yichen Zhu, Xiaojiao Li, Jiabao Suo, Yu Yin, Chengling Huang</i>	
Large-Scale Analysis of Teaching Interaction Logs and Predictive Model for Internship Teaching Students' Competency Development	24
<i>Yaoyao Li</i>	
TAFSNet: A Type-Aware Low-Frequency Semantic Consistency Network for Robust Deepfake Detection	30
<i>Yuxin Shui, Jing Wu</i>	
Dynamic Modeling and Heterogeneity Analysis of Platform User Behavior Time Series	37
<i>Jiayang Yin, Hanyu Rao, Yuting Huang</i>	
Open Education Student Dropout Early Warning: An Adaptive Weighted Stacking Ensemble Learning Approach	41
<i>Xuemei Shen, Zhiping Li, Shubo Tang, Binghua Yang</i>	
Weakened Learning Subjectivity Under Generative AI in Higher Education: A Social Network Simulation Study	45
<i>Chaocai Wei, Weizhang Luo</i>	
Evaluation of Course Objective Attainment in Electrical and Electronic Technology (B) Based on a PSO-IRBF Neural Network	50
<i>Yang Liu, Fenghe Wu, Zhu Wen, Tiantian Liang, Yunming Wang</i>	
Spam Email Classification Based on CNN-Meta Feature Fusion	56
<i>Mei Li, Yihui Shi, Xintian Wang, Jiaqi Dong, Dongyang Li, Taixing Li, Zhaoyue Hu, Shanghui Jiang</i>	
Evaluation and Optimization of Large Language Models for Cross-Cultural Sentiment Analysis and Text Generation	60
<i>Jie Liu, Yuting He</i>	
An LLM-Driven Framework for Automated Knowledge Graph Construction from Engineering Educational Resources	67
<i>Yufan Liu, Yuxiang Ye, Yukang Wang</i>	
CVETE-MMKG: A Cost-Effective Multimodal Knowledge Graph Framework for Evidence-Based Competency Assessment in Vocational Education	72
<i>Jirui Dong, Shanshan Cheng</i>	

Knowledge Graph-Enhanced Personalized Learning Path Planning for Equitable Education	76
<i>Haijia Zhong, Fucai Xie, Silalai Phadboke, Liming Qi, Ziyu Cai, Xianpeng Wang, Zhang Pengfei</i>	
<i>Wenyuan Lu</i>	
Intelligent Learning Behavior Analysis Via Multimodal Fusion: A Five-Stage Framework	80
<i>Jing Wang</i>	
Vocational Education's Causal Effect on Income: A Method Based on Double Machine Learning	86
<i>Hong Ma</i>	
Exploration and Development of Electrolytic Water Catalysts Aided by Computational Chemistry	91
<i>Runtai Wang</i>	
Multimodal Analysis of Family Interactions and Children's Psychology	98
<i>Yingtong Aia, Libin Yang, Liwen Zhang</i>	
Reinforcement Learning for Adaptive Music Curriculum Design	105
<i>Jingting Jin</i>	
AI-Assisted Curriculum Teaching Design of E-Commerce: A Quasi-Experimental Study Based on TPACK Framework	110
<i>Jun Li, Xuejiao Pang, Ying Song, Yuling Liu, Junfan Ye, Xiaohu Fan</i>	
Research on Automatic Classroom Dialogue Classification Based on Multimodal Information	115
<i>Yonghao Chen, Peng Han</i>	
Dual-Stream Transformer with Disentangled Representations for Classroom Emotion Recognition	119
<i>Luoluo Wang, Junli Li, Wenjing Du, Yingzi Gu</i>	
A Dual-Path Collaborative Optimization Algorithm for Generative Artificial Intelligence in K-12 Art Education	123
<i>Xinyi Zhao, Xingling Zheng</i>	
A Cross-Modal Semantic Alignment Method and Computer-Aided Translation System for English Translation	127
<i>Jia He</i>	
Construction of a Multi-Dimensional Blended Teaching Model for Mental Health Education Based on Knowledge Graph and OBE Concept	131
<i>Mingfang Li</i>	
VoiceEdu: A Retrieval-Augmented Voice Tutoring System for Course Instruction with Retrieval Strategy Evaluation	135
<i>Junxiang Gu, Fengqin You, Xin Pang, Yuchen Tang, Shiqi Shao, Jun Jiang</i>	
Virtual Simulation Teaching Practice of Automobile Theory Integrated with Artificial Intelligence	146
<i>Peijiang Chen, Mei Zhang</i>	
HGCQA: A Benchmark for Complex Question Answering in Chinese History and Geography	150
<i>Mengyuan Zhen, Xiongyi Zhang, Bo Chen, Xiaobing Zhao</i>	
GenAI-Empowered Blended Learning: Model Reconstruction and Quasi-Experimental Validation	159
<i>Hailang Chen, Yingxia Ye</i>	

Automatic Generation of Responses for Higher Education Question-Answering Robots Based on an Improved Seq2seq-Attention Model	165
<i>Jiahui Hu</i>	
Meta-Adaptive Deep Reinforcement Learning for Dynamic Optimization in Intelligent Tutoring Systems	170
<i>Chen Dan, Wang Qianyang</i>	
Pose-Guided and Region-Cascaded Misbehavior Detection for Retail Scenarios	175
<i>Jiahao Xie, Weidong Li</i>	
Design of Helicopter Maintenance Support Simulation Training System and its Application in Aviation Talent Cultivation	180
<i>Zexin Qi, Yang Zhao, Xuesong Zhang, Meisi Wu, Peixin Qi</i>	
AI-Driven Digital Twin-Based English Empowerment Model for Low-Altitude Economy Safety Training	187
<i>Xiaolei He, Ning Zhang</i>	
Regional Education Management Intelligent Construction: A Multi-Modal Fusion Framework Based on Graph Neural Networks	191
<i>Jie Li</i>	
AI-Augmented Immersive Learning Environments: Integrating Generative AI and Real-Time Interaction for Personalized Teaching	196
<i>Na Guo</i>	
Convergence Analysis and Communication Optimization Strategies for Federated Learning with Non-Independent and Identically Distributed Data	201
<i>Jinghan Ma, Shixue Liang, Zhiyu Huang</i>	
Development and Application of an Intelligent Tutoring System for Higher Education Based on an Educational Knowledge Graph	207
<i>Xiaoyan Jian, Na Li</i>	