

ISSN Print: 2075-0161, ISSN Online: 2075-017X
Volume 18, Number 4, August 2026

International Journal of

Modern Education and Computer Science

Vol.18

No.4 Aug. 2026

IJMECS **Vol.18**

[Http:// www.mecs-press.org](http://www.mecs-press.org)

Vol.18 No.4 August 2026



Contents

REGULAR PAPERS

AI-Driven Rubrics for Academic Grading & Feedback Using Fuzzy Clustering & Attention Networks <i>Rudragouda G. Patil, Mahantesh N. Birje, Manisha Tapale, Nagaraj V. Dharwadkar</i>	1
Comparative Performance Analysis of Generative AI Applications in PLC: An Industrial Electrical Engineering Subject <i>Amnaj Prajong, Therdpong Daengsi</i>	25
Augmented Reality (AR) and Gamification on Immersive Learning Experiences and Perceived Academic Performance: Using SEM and Network Analysis <i>Hendra Hidayat, Dewi Artati Padmo Putri, Wahyu Sakti Gunawan Irianto, Putrinda Inayatul Maula, Diki Diki</i>	40
Measuring the Influence of Mobile Learning on Value-Based Competence Formation in Primary Pre-Service Teachers <i>Aziya Zhumabayeva, Sazhila Nurzhanova, Rabiga Bazarbekova, Zhazira Zhumabayeva, Assel Stambekova</i>	59
Applicability of STEAM+X Approach in Early Childhood Education: Teacher Needs Analysis <i>Adalet Kandır, Elif Çağlak</i>	72
Impact of AI and Digital Skills Education on University Students' Knowledge and Attitudes toward Generative AI: A Descriptive Evaluation Study <i>Esra Alzaghou, Abdelbaset Assaf, Tahani Al-Khatib, Rana Yousef</i>	85
Empowering Self-Learning: Automated Assistance and Grading Mechanisms in Android Application Development <i>Yan Watequlis Syaifudin, Nobuo Funabiki, Andi Baso Kaswar, Asep Sunandar, Suryani Dyah Astuti, Triana Fatmawati, Mustika Mentari, Alfiandi Aulia Rahmadani</i>	99
AI-Based Temporal-Causal Modeling of Educational Curiosity through Novelty and Uncertainty Dynamics <i>Billel Arbaoui</i>	122
Enhancing the Evaluation Framework for Capstone Projects in Information Technology Undergraduate Programs <i>Thacha Lawanna</i>	141
The Mediating Role of Cognitive Control and Flexibility on Load and Usability in Distance Education <i>Yener Yıldız, Tayfun Yörük</i>	168
Integrating Question Answering Technology into E-Health Education: A Computer-Supported Learning Approach <i>Wiwin Suwarningsih, Nuryani, Endang Suryawati</i>	182
Crowdsourcing in Educational Contexts: Growth Dynamics and Scientific Perspectives <i>Kamal Bouachri, Najib Zerrad, Lhoussaine Alla</i>	201
