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Building a Sustainable Digital Graphics Ecosystem: Integrating AI, Localized Content, and Teacher Empowerment

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Building A Sustainable Digital Graphics Ecosystem: Integrating AI, Localized Content, And Teacher Empowerment

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The increasing complexity of professional 3D modeling software, compounded by a shortage of qualified instructors and a lack of learning resources in non-dominant languages, presents significant barriers to digital graphics education. This study evaluates an integrated pedagogical model aimed at cultivating a sustainable, localized digital graphics learning ecosystem, based on a case study from Kyrgyz-Turkish Manas University. The proposed model comprises three interconnected pillars: (1) AI-assisted learning, utilizing automated features within Autodesk Maya to reduce cognitive load; (2) systematic localization, including the development of Kyrgyz-language video tutorials; and (3) teacher empowerment via workshops on digital content creation and AI-enhanced facilitation. Using qualitative methods—including classroom observations, student project analysis, and expert feedback—the study identifies a marked increase in student engagement and a reduction in the technical learning curve for 3D asset creation. The research contributes to the field by conceptualizing the synergy between AI tools, localized resources, and faculty development as a sustainable mechanism for modernizing digital arts education within resource-constrained and non-Anglophone contexts.

Keywords: AI-assisted learning,3D modeling pedagogy,Digital graphics education,Localized learning resources,Teacher professional development

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FULL TEXT ACCEPTANCE LETTER

Assist. Prof. Dr. Mahmut Vural
Kyrgyz-Turkish Manas University, Kyrgyz Republic

13 September 2026

We are pleased to inform you that your submission titled "Building a Sustainable Digital Graphics Ecosystem: Integrating AI, Localized Content, and Teacher Empowerment" presented at the ICRES - 2026 in Cappadocia, Nevşehir / Türkiye on 06 - 10 May 2026 has been accepted as a Proceeding Paper .

The ICRES has a double-blind peer-review process. If you need to revise your paper based on the review comments, please use the template file from the website and re-upload your final paper. Please include all author information in your revised paper. While the chapters and proceeding papers are uploaded to the conference website, the journal papers are uploaded to the journal website . If your full paper is selected for publication in the journal, please register and submit your final paper to the journal in two weeks. All full papers confirmed will be processed for publication.

Thank you for your valuable contribution.

Best regards,

Mack C. Shelley, III

Prof. Dr. Mack Shelley
Iowa State University, USA
On behalf of the ICRES Organizing Committee

SUBMISSION

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