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Teaching 3D Modeling with AI in Autodesk Maya: New Opportunities for Students and Educators

Aida Abdilaziz Kyzy · Mariyam Abdraimova · Zamirgul Kazakbaeva · Mahmut Vural · Nasikat Alieva

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PUBLICATIONS

Initial Legal Regulations for the Development of Relations between Türkiye and Kyrgyzstan after Independence 221
Evaluation of Nobuto© Strips for Sarcoptic Mange Assessment Using Kyrgyz Ungulate (Ibex & Argali) Samples 222
Using VLAN in Computer Networks 223
Using Coatings to Increase the Biocompatibility of Metallic Biomaterials 224
Studying the Selective Cytotoxic Effects of Aza Spiro [3,4]Octan-1-One and Arylpyrrole Compounds on Hepatocellular Carcinoma Cells and Their Targeting of The Mitochondrial Apoptosis Pathway 225
Toxicity Assay of 3D-Printed Multiphasic Nanocomposite Scaffold Against Mesenchymal Stem Cells 226
Ecological and Cytogenetic Features of Some Mammals of the Kemin Valley 227
Computational Optimization of $CsPbI_3$ Perovskite Solar Cells for Enhanced Efficiency Using SCAPS-1D 228
Asymptotic Solution of a First-Order Partial Differential Equation with a Small Parameter 229
Green Nanotechnology Features in Modern Research 230
Green synthesis as a safe method for producing nanoparticles in the medical and pharmaceutical industries. 231
Modification of Montmorillonite Nanoclay with Curcumin Using Phytosynthesis Method..... 232
Optimality Conditions for Minimization Problem of Piecewise- Linear Functional in Optimization of the Oscillation Processes 233
Teaching 3D Modeling with AI in Autodesk Maya: New Opportunities for Students and Educators 234
A Study on the Preparation and Application of a New Graphene Oxide-Polyvinyl Imidazole Nanocomposite Fiber via the Sol-Gel Method for Solid-Phase Microextraction of Volatile Organic Compounds 235

CONGRESS CLOSING SPEECH 237
CONGRESS PROGRAM 239

Teaching 3D Modeling with AI in Autodesk Maya: New Opportunities for Students and Educators

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Abstract

New Opportunities for Students and Educators 3D modeling is a highly demanded skill in gaming, film, architecture, and design. Many educational institutions face challenges such as limited resources, a shortage of qualified instructors, and high entry barriers for beginners. Artificial intelligence (AI) offers innovative solutions to enhance the learning process. This paper explores how AI can simplify 3D modeling education with Autodesk Maya, one of the leading tools in digital graphics. AI-powered features like action suggestions, error correction, and text-to-model generation streamline learning, reduce the workload for educators, and make the process more engaging for students. A case study at Kyrgyz-Turkish Manas University highlights the creation of instructional materials in the Kyrgyz language, covering all stages, from scripting to producing video lessons. Additionally, a workshop is being developed to train educators and students in video production, enhancing their skills and enriching their educational experiences. AI-driven tools not only simplify mastering complex software but also inspire creativity and confidence in students, preparing them for careers in the evolving digital industry. This integration of AI into education represents a transformative step toward inclusive and modern learning environments.

Keywords:

3D modeling, Artificial Intelligence (AI), Autodesk Maya, Educational Technology, Digital Learning

Agricultural and Food Science Session Hall 4 - KTMU (Apr 25, 2025, 1:15 PM - 2:15 PM)

Day 2 Session 1 Hall 4

- Session Chair: Cemil Bayram

1:15 PM	REFLECTION OF OTTOMAN PERIOD CULINARY CULTURE ON MINIATURES	AKKÖK, Aydan
1:30 PM	Heat Treatment Toxicants in Meat and Meat Products: Perspectives on Heterocyclic Aromatic Amines	ÖZ, Fatih
1:45 PM	Freeze Drying of Gilaburu (Viburnum opulus L.) Juice: Determination of Drying Kinetics and Quality Characteristics	RAYMAN ERGÜN, Ahsen
2:00 PM	Teaching 3D Modeling with AI in Autodesk Maya: New Opportunities for Students and Educators	ABDILAZIZ KYZY, Aida