Live LLM Data to SubD Geometry: A Biomimetic Workflow in Rhino 8

By integrating a live LLM API directly into Grasshopper, Malvina Stamatiadi transforms AI-generated coordinate data into a biomimetic SubD lattice inspired by dragonfly wing venation, resulting in a 3D-printed lamp that bridges artificial intelligence and physical craft.

Epicycloid Blossom: A Parametric Lighting Piece Shaped by Geometry, Python, and AI-Assisted Design

Epicycloid Blossom is a digitally developed sculptural lighting piece generated from the mathematical behavior of the epicycloid curve. Although the piece was not physically fabricated, the project reached full production-ready documentation and stands as a refined example of AI-assisted parametric design.

Bio Corallo: A New Biomaterial for Digital Craft and Architecture

Bio Corallo is a lightweight, bio-based ceramic composite developed by Ana Bridgewater that merges digital craft with ecological material research. Made from porcelain and tapioca starch, the project explores how computational design and sustainable thinking can reshape the future of lighting, architecture, and modular fabrication.

Predictive Precision in 3D Printing Through AI

Neelam Chellani’s research focused on enhancing shrinkage and deformation prediction in 3D printing through cGANs, delving into machine learning’s ability to forecast deformation in 3D-printed objects.

“Diffusions in Architecture: Artificial Intelligence and

Image Generators”

A groundbreaking exploration into the transformative realm of Generative AI models, deciphering their profound impact on architectural design and aesthetics.