

# **“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.

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## **Mike Annear’s 3D Scanning Odyssey**

One name stands out in the ever-evolving landscape of 3D scanning and modeling technology: Mike Annear, the founder of Scan2Model. With a career spanning over two decades, Mike has been at the forefront of the 3D scanning revolution.

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## **ContraFuerte: a Groundbreaking Symphony of Artistry & Computational Ingenuity**

In Philadelphia, Miguel Horn’s visionary fusion of artistry and advanced design techniques came to life through a

combination of traditional sculpting methods and Chris Landau's innovative digital expertise.

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## **Origami, Shaping Colombia's Architectural Frontier Through Parametric Design**

Origami has redefined architectural possibilities through parametric and algorithmic design. Their strategic use of plugins and technological understanding allows them to produce efficient and aesthetically pleasing solutions in every project.

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## **Digital Fabricators Project: Kerf Fabric**

A unique project helmed by students enrolled in the Digital Construction Bachelor's program at Lucerne University of Applied Sciences and Arts (HSLU). The design of this hemisphere and its fitting influenced the production of Voronoi plates using a 3-axis CNC milling machine.

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# Revolutionizing Climbing Wall Design with Computational Workflows

Climbing walls have transcended their traditional role as recreational structures, emerging as fertile ground for architectural innovation driven by computational design.

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## Triangulation: 3D Printed Parametric Jewelry & Accessories

Triangulation boldly explores new frontiers in fashion by blending architectural aesthetics with cutting-edge design technology. Utilizing Rhino and Grasshopper, AI-generated designs are brought to life through 3D printing.

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## A Pioneer's Journey at the Intersection of Art, Mathematics, and Technology

As we celebrate Rhino's 25th anniversary, we recognize the contributions of Rinus Roelofs, who uses Rhio without

preconceived notions of scale, material, or color, allowing for a flexible and practical approach to his projects. His innovative and creative spirit has propelled the software to greatness, exemplifying the endless possibilities when mathematics, art, and technology intersect.

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## **The Melting Bookshelf**

A simple bookshelf made using the parametric capabilities of Grasshopper.

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## **Grupo MSH's Innovative Façade: Creating a Harmony of Environment and Aesthetics**

Grupo MSH uses solar design principles and computational analysis to optimize energy usage and window placement, balancing daylight and solar heat gain. Their architectural solutions blend functionality and visual appeal, integrating natural lighting, radiation, transparency, and illumination in a responsive design.