BE-AM

BUILT ENVIRONMENT

ADDITIVE MANUFACTURING

2023

BE-AM 2023 SYMPOSIUM

TECHNISCHE UNIVERSITÄT DARMSTADT

DDU
Digital Design Unit — Digitales Gestalten

ISM+D
Institute of Structural Mechanics and Design
Institut für Statik und Konstruktion

xchange
for innovation

Generative Design Lab

ADDITIVE MANUFACTURING CENTER

DFG Deutsche Forschungsgemeinschaft
German Research Foundation

formnext

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NEOLITHIC'S SLOPED STAIRS: REDEFINING EFFICIENCY AND DESIGN IN CONSTRUCTION

Neolithic BV
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Neolithic is an innovative startup at the forefront of 3D printing and digital warehousing. We specialize in sustainable industrial 3D printing of stone objects using cutting-edge technologies, such as mortars, stone powders, and clay. With our advanced technology and efficient supply chain, Neolithic excels at rapidly conceptualizing, printing, and delivering high-quality products. Our robotic production hubs primarily focus on the creation of modular construction and infrastructure components. At Neolithic, we place a strong emphasis on product development and also provide tailor-made solutions for unique designs in close collaboration with contractors, designers, artists, and municipalities. One of our flagship products is our mass-customizable sloped stairs system. This innovative solution employs modular 3D concrete printed components that can be easily repurposed. Thanks to our material-optimized printing processes, our sloped stairs consume up to 50% less material compared to conventional concrete stairs. Using our digital configurators, you can create a sloped stair design that perfectly suits your requirements. The Neolithic digital processes ensure a seamless transition from design to print data, resulting in speedy delivery within a few weeks. Moreover, our pricing is significantly more affordable than traditional methods. Neolithic stands as a beacon of efficiency and sustainability, setting a new standard in the construction industry.