

Interactive Architecture[I.A.]

The convergence of embedded computation and kinetics in architectural form with the intention to involve human and environmental responses creates an architecture that could be termed interactive or responsive, but can also be cybernetic.

As people interact with architecture, they should not be thought of as “users” but instead as “participants”. Marcos Novak uses the term transactive intelligence, to define architectural intelligence that not only interacts, but that transacts and transforms both the user and itself. If architecture is to continue to respond to the affordances of technological innovation that surround it as a profession, then we may no longer ask “What is that building?”, or “How was it made?”, but rather, “What does that building do?”

interactive pavilion.

Living Light by David Benjamin
and Soo-in Yang

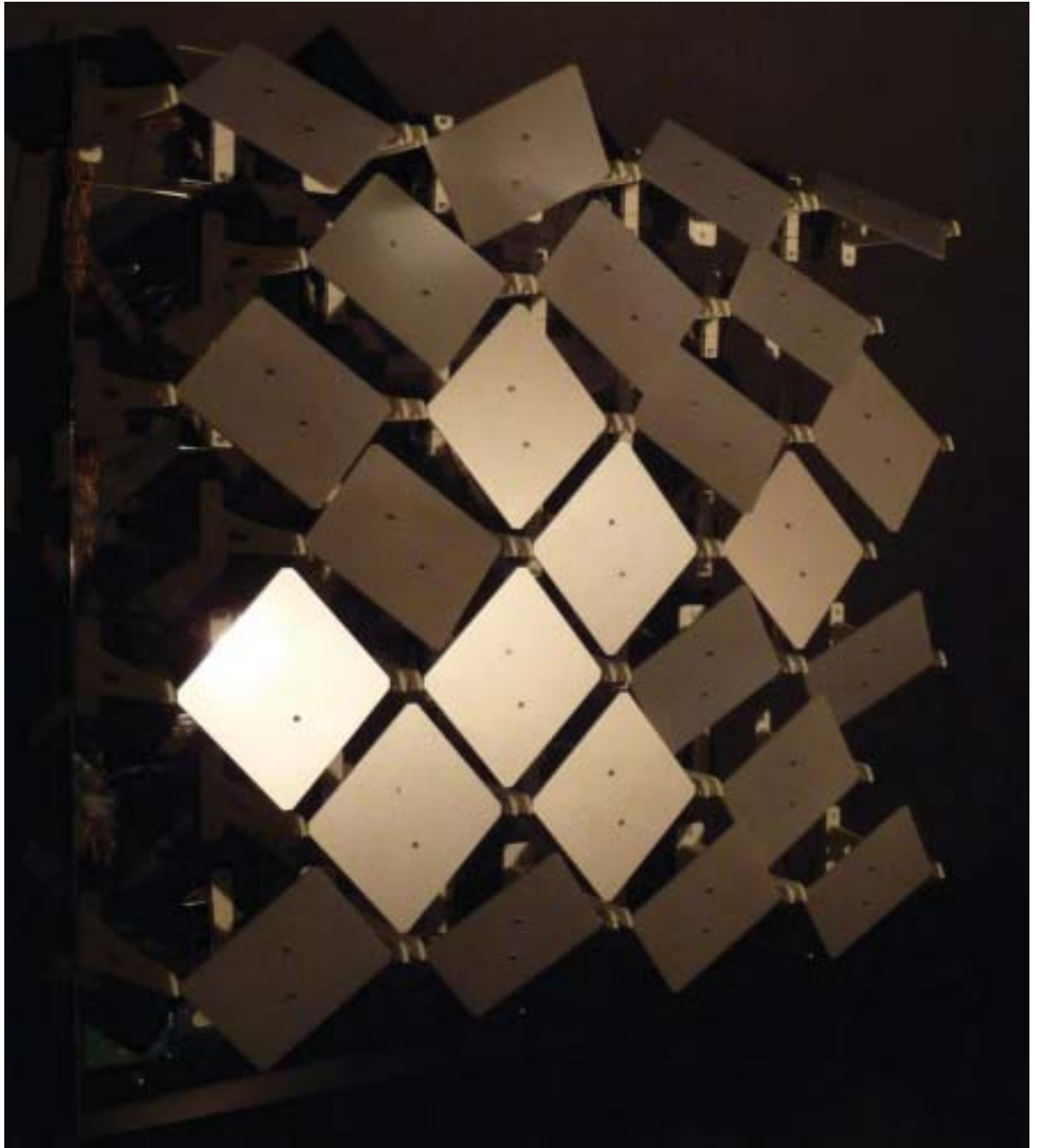


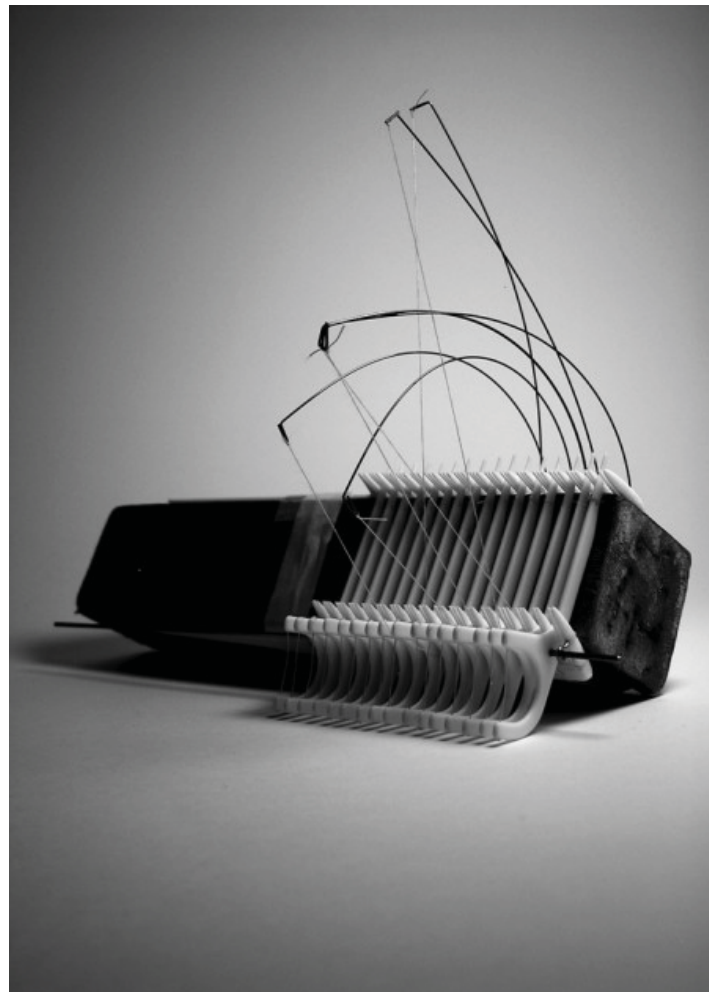
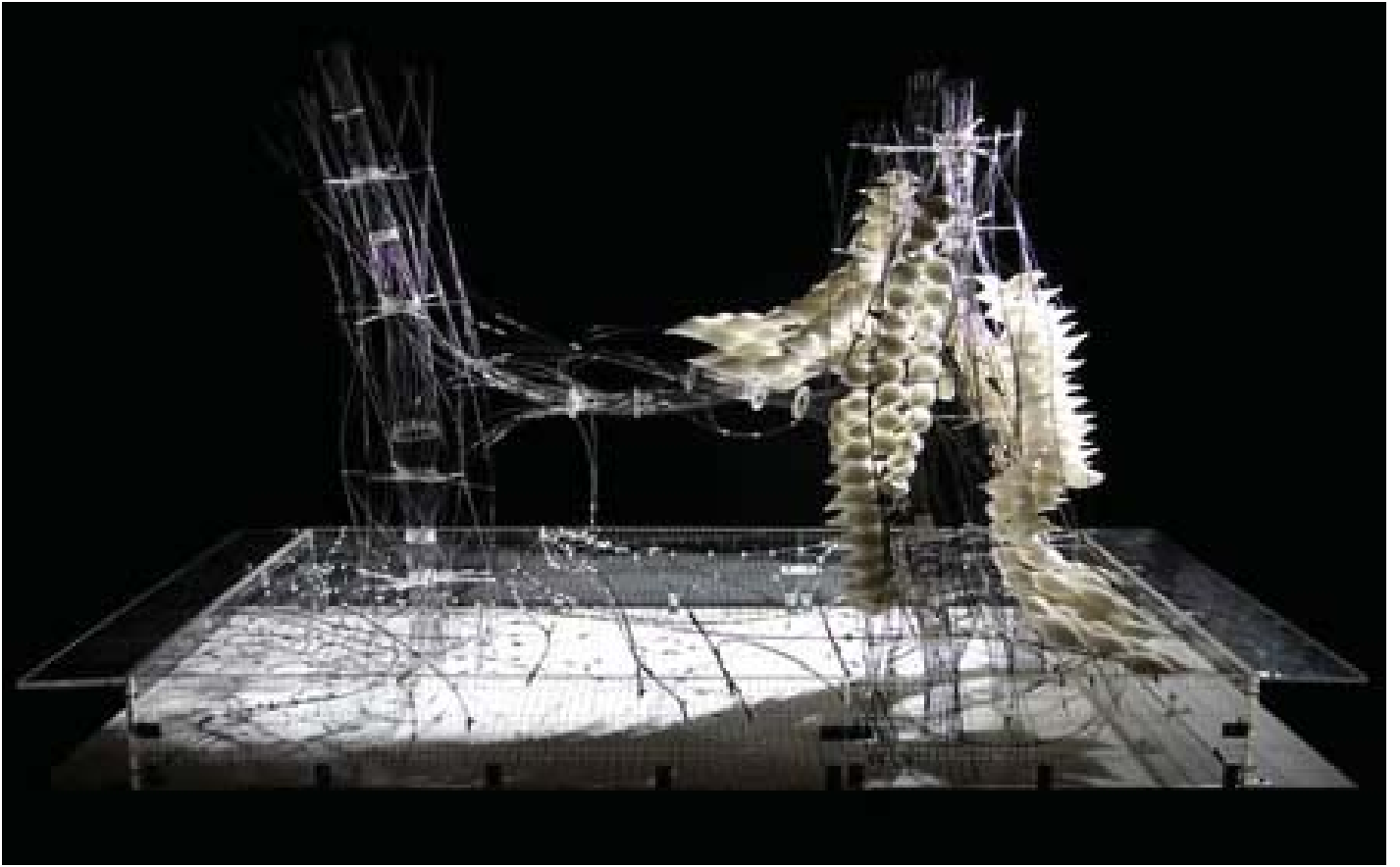
a permanent outdoor pavilion in the heart of Seoul with a dynamic skin that glows and blinks in response to both data about air quality and public interest in the environment. The skin of the pavilion is a giant map of Seoul with the 27 neighborhood (gu) boundaries redrawn based on existing air quality sensors of the Korean Ministry of Environment—each shape in this new map encloses the air closest to one of the sensors. Then the map illuminates to become an interactive, environmental building facade. Citizens can enter the pavilion or view it from nearby streets and buildings, and they can text message the building and it will text them back.

I.A.

Here's a great project that came out of the Adaptive Architecture and Computation programme at the Bartlett School of Architecture. 'Adaptive Fa[ca]de' by Marilena Skavara explores the functional possibilities and performative characteristics of cellular automata (CA). In addition to the unique emergent behaviour of CA, a neural network enables a further computational layer to evolve CA behaviour to the context of its surrounding environment.

adaptive facade.





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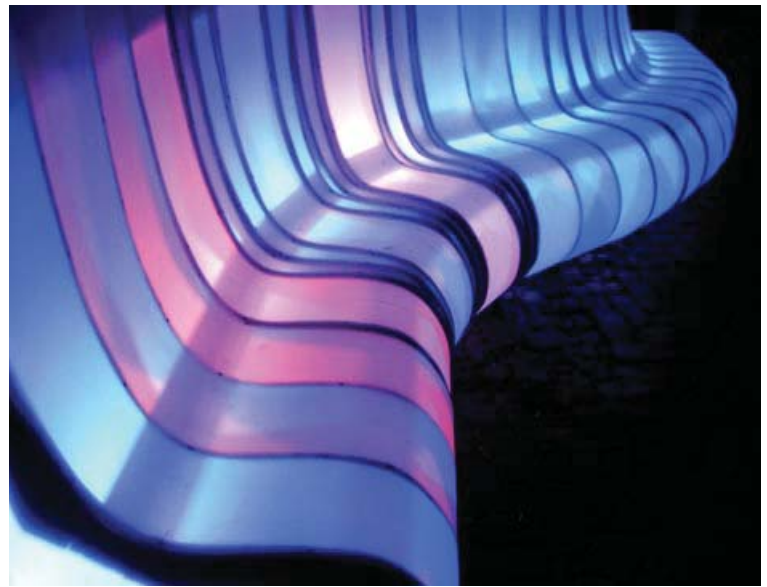
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light emitting textile.

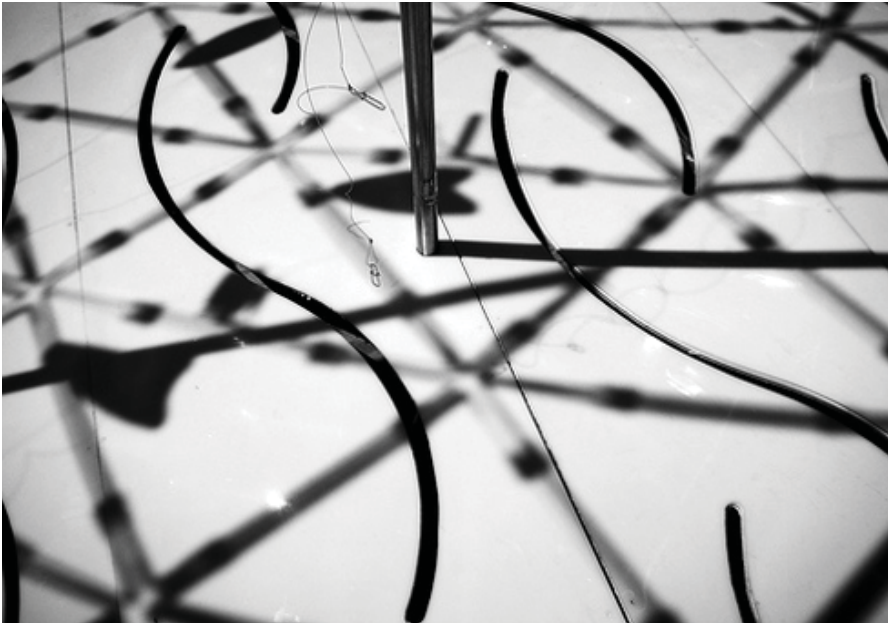


Torbjorn Lundell's new light-emitting textile, GloFab launched at the 2006 Stockholm Furniture Fair uses light directed through fiber optic cables which are weaved together to create a range of effects. Fiber optic cables can only be bent so much before light can no longer pass through them so the knots of GloFab are all kept large, giving the textile a beautiful gossamer look which perfectly suits its ethereal glowing quality

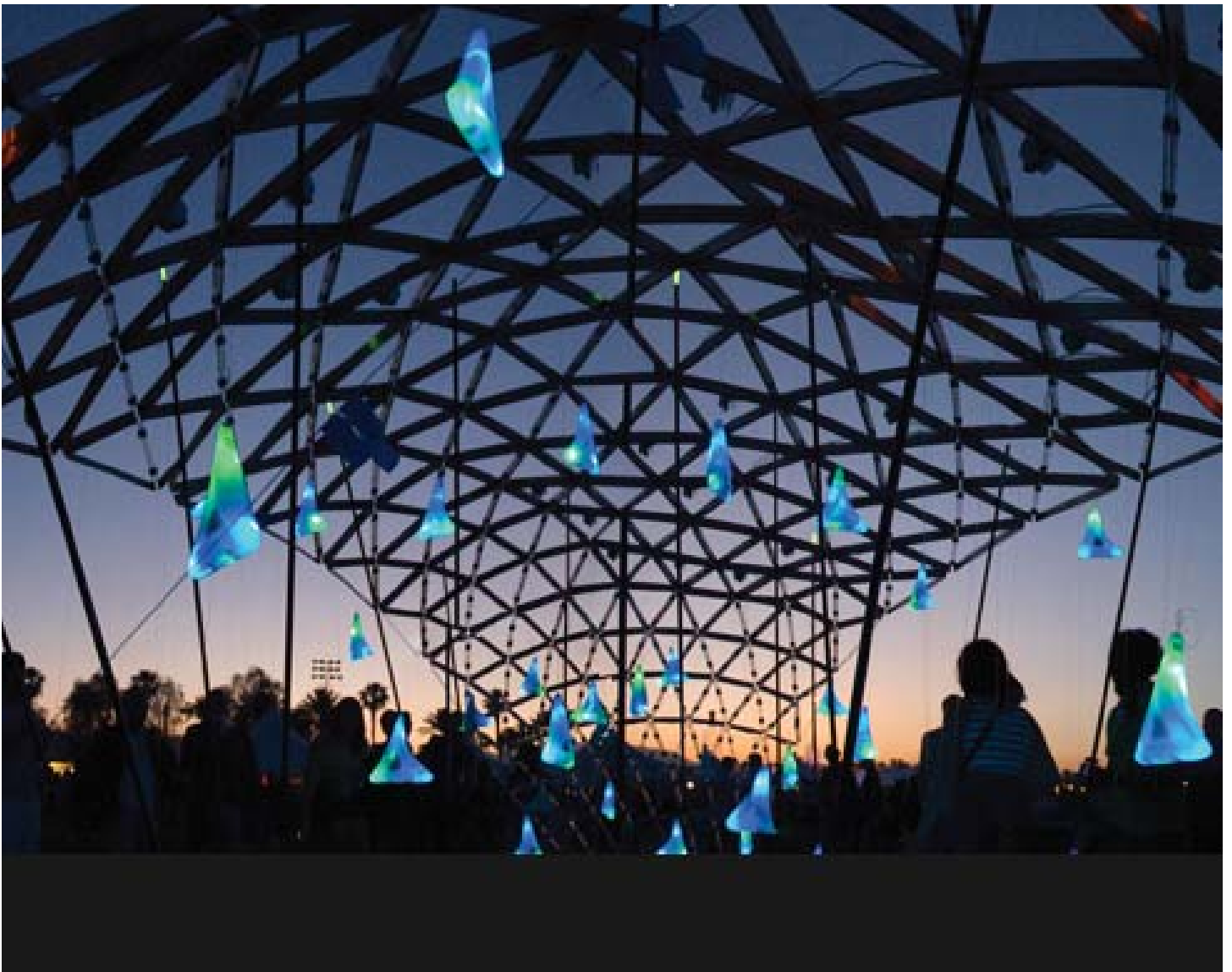




I.A.



temporary pavilion.



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connection.



frame.

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Kiefer Technic Showroom Facade



Created by architect Giselbrecht + Partner ZT GmbH this amazing project is called "Dynamic Facade" better known as the Kiefer Technic Showroom in Bad Gleichenberg, Austria.

