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## Celebrating young design

BJARKE INGELS' BIG STRUCTURES

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For the Shenzhen Hong Kong Biennale of Urbanism, held in 2009, the studio constructed a dragonlike ceiling treatment from 10,000 items of clothing donated by American Apparel.

Ball-Nogues' most successful projects are almost spectral, shying away from architectural labels even as they fill and shape space The pair first developed the Insta-llator 1 for Echoes Converge and then refined it specifically for Feathered Edge. It has since become a valuable tool for them to bridge the gap between the Maya digital software they use to model environments and the labour-intensive production needed to craft the resulting data. The 3,604 lengths of string that comprise Feathered Edge were produced using the machine. While the final piece required hand-sewing each string onto a digitally mapped canvas using carpet needles, Insta-llator 1's ability to measure, paint and trim eliminated thousands of hours of manual labour.

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Tools serve as a lingua franca for Nogues, a self-proclaimed gearhead who used to build custom vintage cars on the side. He envisioned the Insta-llator 1 as an entire system linked as much to the digital model as to the environmental effects it produces. "Craft tends to be tied to tradition, viewed as a lower art form and tied to the process of making rather than to ideas," says Ball. "With computation, we're able to open up the process to interpretation, explaining the continual experiments in automation."

Most of what Ball-Nogues has built has been explorative rather than functional, but that's beginning to shift. Last May, the studio created a cardboard reception desk for Edward Cella Art + Architecture, the L.A. gallery that represents the partners and helped them land the Venice Biennale invite. The desk resembles a desert mesa and is made from layers of cardboard precur using computational software and stacked by hand. At the L.A. County Building and Safety Permit Office, they installed an art piece made from 2,000 lengths of brass- and nickel-plated bead chains attached to perforated aluminum panels and fitted into the existing acoustical ceiling grid. The result is a diaphanous geography; soft waves of chain hang overhead like the roof of a metallic cave.

Teepee, a wildlife observation pavilion on the drawing board for a client in New York state, is the closest they have come to simply enclosing space and creating a permanent structure. The plan is to connect triangular stainless steel tiles to form a teepee-shaped porous membrane, which will then be wrapped around long wooden poles, a design based on the tents they constructed for the P.S. I pavilion three years ago.

