

Kathy Wang







Born in Shanghai

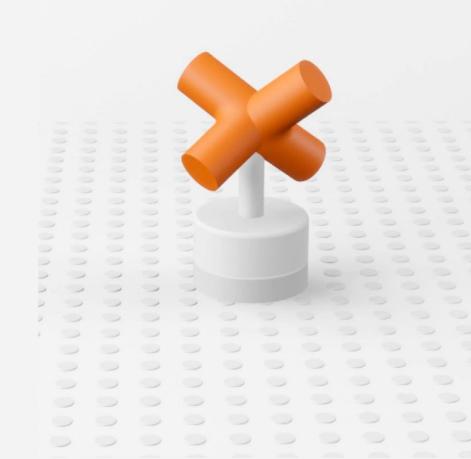
Brooklyn, New York

<u>Pratt Institute</u> Bachelor of Industrial Design, Psychology minor San Francisco Bay Area

<u>UC Berkeley</u> School of Engineering Master of Design

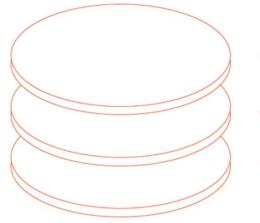
Modular Senses

Aug 2022 - Dec 2022









Functionality Module

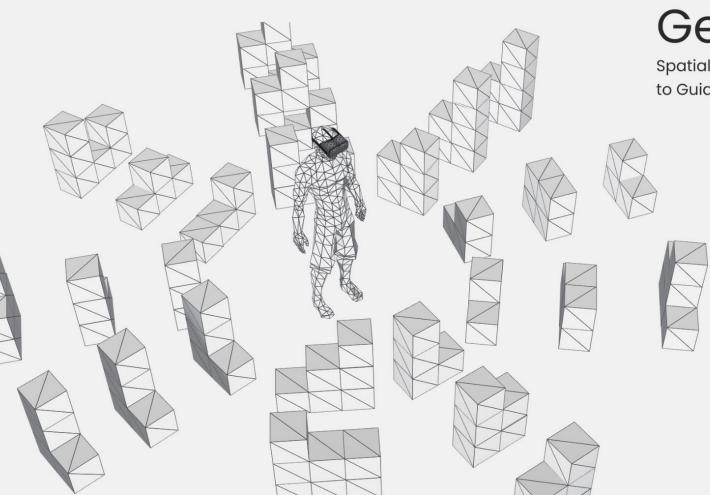
Core Module

Tracking Module







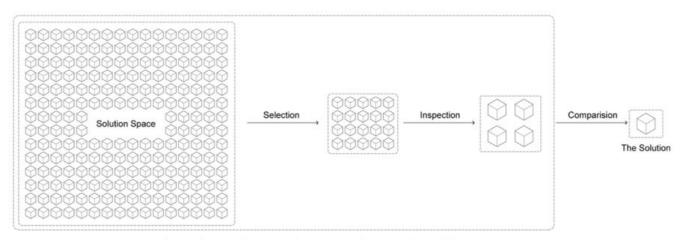


GeneratiVR

Spatial Interaction in Virtual Reality to Guide Generative Design

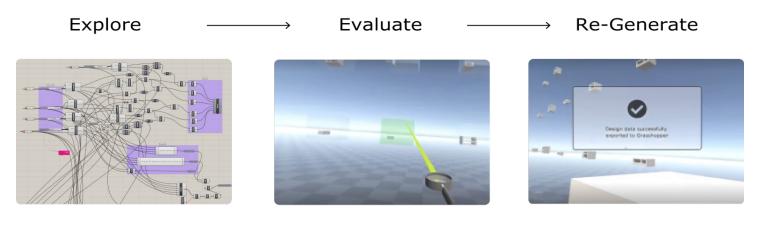
ABOUT

We present an interactive system where users can directly interact with the candidate designs as a method for guiding their exploration of a design space from a generative design system. We hope that the connection of these VR interactions with generative design provides humans with a better sense of how their designs might fit into the relevant environment as well as a possible future mechanism for providing generative algorithms with richer human feedback.



Generative Design Workflows (Image from Keshavarzi, Mohammad et al.)

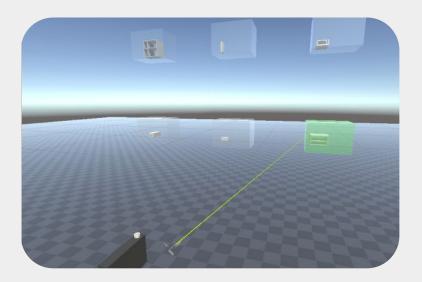
SYSTEM OVERVIEW

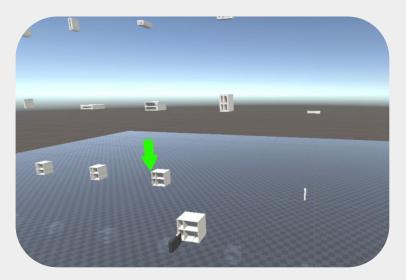


Grasshopper defines a parametric model and takes a generative algorithm to generate a design solution space User explores the design space and filters the design options through VR interaction in Unity Unity sends the parameters of the selected designs back to the generative algorithm

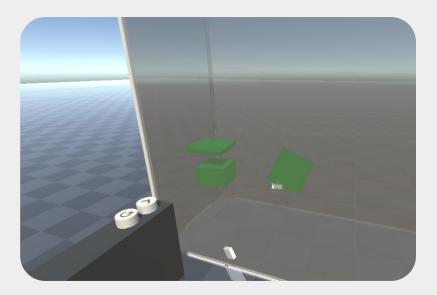
Î

Grid-Based Design Gallery

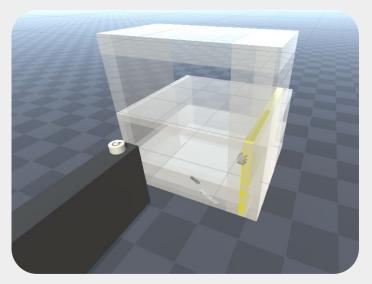




Functionality Filter



Direct Manipulation Filter





Dog Pack An Augmented Reality Art Experience

Dog Pack is an augmented reality environment that uses the Institute of Contemporary Art SF as a site for exploring Dogpatch neighborhood lore in a fantastical and fabulative way. The work combines virtual objects with the physical space to create a hybrid ecosystem where visitors engage in a participatory artwork.



