MAS.834 Tangible Interfaces

Meryl Fang Thomas Sanchez Lengeling Manisha Mohan Penny Webb HyeJi Yang

Telephesen ce Social interactions Manpulation Happibility of function 094 PACE Augmentation self aware Plasticity Exhibition / housing Biological Cedric Price Chain reaction - (feedback loop Funpalace How can space How to create a computational physical change? would it? Parametric OBJECT Individent function Interactions Turning Something morphing Inside out Add/subtract

Key Points:

- Human interaction as opposed to robot autonomy
- Bi-directional 'conversation' with algorithmic transformations
- Feedback loop from materials, maintaining control of interaction
- Nature inspired physical change
- Mid-point between autonomous computational change, and direct human input

Proposal 1.



Conversation Theory - Gordon Pask Bi-directional conversation between entities

Idea 1.

Inspired by atom structures:

Building blocks with programmable on/off magnets to create a dialog between the user and the material. The feedback loop between the person and the objects will give the user autonomy over the construction of the blocks, but the computational model will act as a guide





- Computational design + human input
- Predefined shape is uploaded to block array
- Users piece together structures, guided by the blocks' magnetism
- Outputted shape is determined either algorithmically, by telepresence (distant play) or by an uploaded model



Proposal 2. Digital Tropism

Nature inspired exoskeletons to apply sentient behaviors to domestic objects: e.g. how flowers turn their heads towards the sun Idea 1.



Idea 2.

Self destructing packaging - dissolves or morphs when out of date



Thank you!