

Kinetic Tensegrity Roof:

One attempt is to design an object as an agent which feels-thinks-acts by itself and also senses-calculates-actuates in real time. Users can participate the system through intuitive interfaces such as gesture based spatial embedded interface with image recognition which needs slight awareness by user. Kinetic Tensegrity Roof, which forms the roof of the tea room, changes light conditions in the tea room in response to users activity.

Tea Room

1980W x 1650L x 2330H mm tea room. The entrance to the tea room is called Nigiriguchi, literally means "crawling entrance". The gate symbolically separates the small, simple, quiet inside from the crowded outside world. The shoji partition allows soft light to filter in.



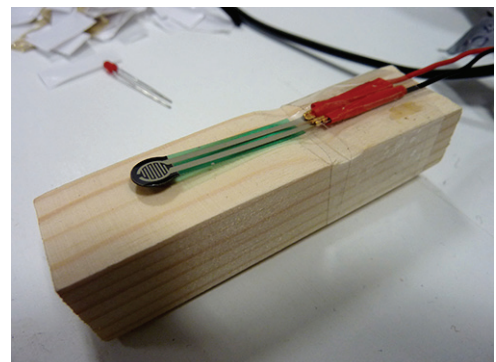
Tai-an, tea room at Myokian temple

Smart kinetic floor:

Other attempt is to create an object which has self-adjusting kinetic function, such as a floor capable of reacting automatically to human weight or posture in a way it's been programed. This will be realized by introducing the dynamic structure engraved on continuous material and optimizing its graphical pattern using the dynamic analysis so that it's capable of controlling its touch and movement. This element forms the floor of the tea room.

Pressure sensitive sensors:

14 No. of sensors are concealed within floor build-up. Once it detects pressure from the floor, signal will be transmitted to roof to operate the local height adjustment.



Pressure sensor on timber batten

