

Metadome - stage one presentation report

Stage one presentation overview

The initial presentation of the metadome aims to provide full information on the project idea, its components and some technical details about the project realization. In addition, the presentation should provide early sketches of the metadome architecture. The presentation can be found at the following URL: <http://misc.caseymongoven.com/metadome/description.htm>

Presentation structure

The web presentation of the metadome consists of the following units:

- Project description
- Control loop
- Gallery
- References
- Team

In addition, the following sections were added in response to the feedback we received during the presentation:

- Metamaterials
- Proposed site

We briefly describe each of sections:

Project description: in its first part aims to convey the key idea behind metadome - examining human-metamaterial interaction through an interactive art-installation. This section also provides the background about metamaterials, materials that have properties that cannot be observed in nature, and the motivation for investigating the social impact of those materials.

Metamaterials: we define three groups of metamaterials: electromagnetic, seismic and acoustic metamaterials. Their properties are briefly explained in this section.

Control loop: one of the most important functions of metadome is its interactivity. Through a number of sensors the structure can capture human behavior and react in a way that facilitates further exploration of metadome. We list the sensors and their capabilities here.

Gallery: Multiple views on metadome are presented in this section. We try to capture the variety of material that it hosts, as well as the interactive nature of metadome, through the images presented in the gallery.

Proposed site: we selected Yeosu, South Korea, as the target deployment site for metadome. Yeosu will host the next World Expo exhibition in 2012. Moreover, Yeosu lies on the shore of the Pacific ocean, giving the metadome a great opportunity to harness the relationship of some of the metamaterials with the ocean water.

References: We list a number of references that put the project in a greater scope of interactive architecture and material exploration based art in this section of the website.

Team: A short biography of each of the team members.