

Ken Goldberg



Robbie Zant

Art 102

Winter 2011

Biography

- Born 1961
- University of Pennsylvania
 - BS in Electrical Engineering
 - BS in Economics
- Carnegie Mellon
 - PhD in Computer Science
- Teaching
 - 1991-95 at USC
 - Currently at UC Berkeley

Areas of Interest

- Robotics
- Automation
- Medical robotics
- Art
- Networked robotics and cameras
- Social information filtering
- Algorithmic automation
- New media
- Algorithms for feeding, fixturing, grasping and assembly
- Game-based learning

Power and Water

- 1992, Fisher Gallery, USC
- Collaboration with Margaret Lazzari
- Goldberg's contribution consisted of a robot painting machine
 - Caused many to question concepts of authenticity and authorship of artwork



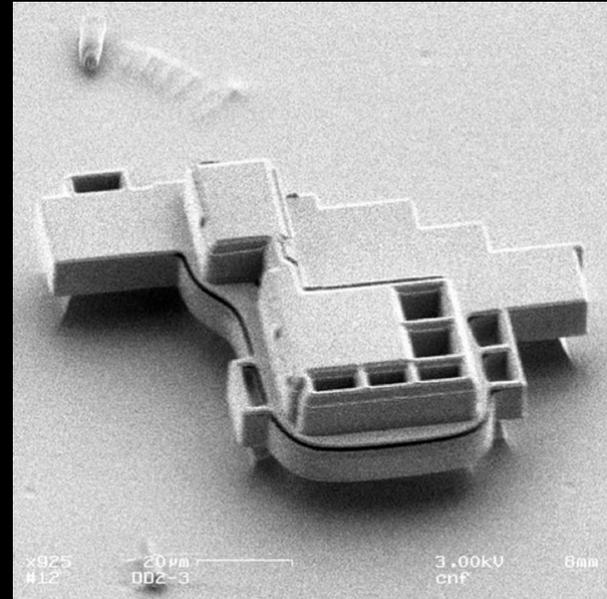
The Telegarden

- 1995-2004
- Participants could, via the Internet, monitor an actual garden in a remote location
 - Plant new seeds, water plants, watch growth, etc., which was carried out by a robotic arm
- Puts participants' actions under scrutiny, as they never know if they are being watched or not



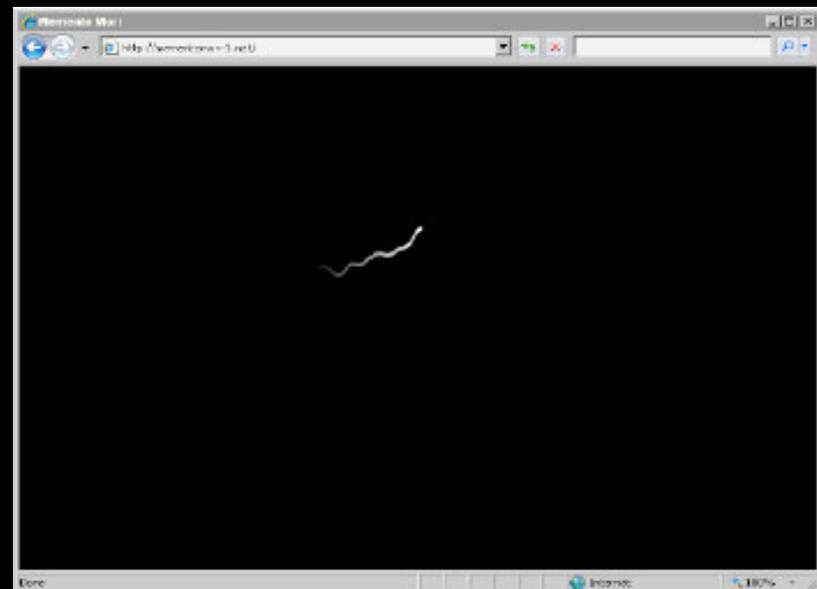
flw

- 1996
- 1/1 millionth scale model of Frank Lloyd Wright's *Fallingwater* house
- Dimensions:
 - 60x80x10 micrometers
- “fabricated from silicon using ultra high precision lithography”



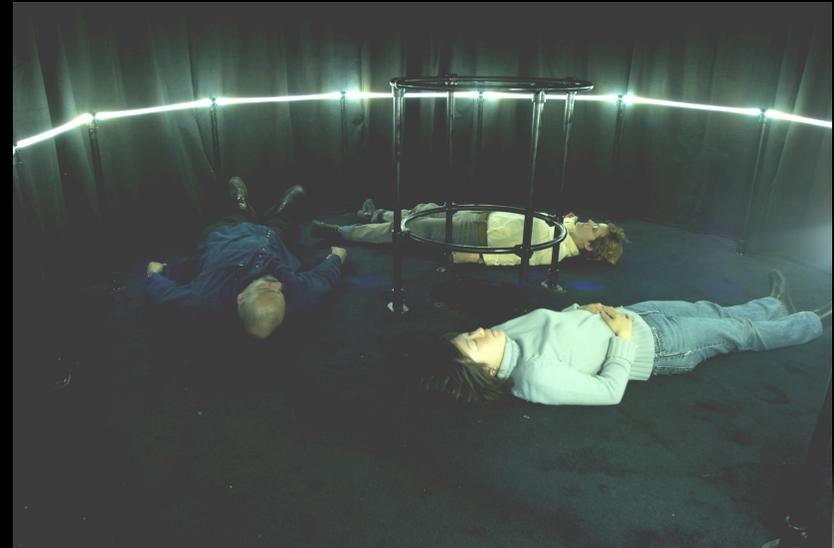
Mementomori

- 1997-present
- Internet-based work that provides a continuous display of the minute movements detected along the Hayward Fault, which runs through Berkeley, CA
 - Measured by a seismograph
 - Data transmitted to computer screen
- Reminder of human vulnerability



Mori

- 1999-2005
- Sister project to Mementomori
- Seismic changes along Hayward Fault are transmitted acoustically into this constructed environment



Conceptual

- Goldberg uses robotics, the Internet, computers, and other forms of cutting-edge technology in order to comment upon issues such as nature, human finitude, and the implications of technology itself through his artwork
- His work expands the area within which technology may operate (the art world, for ex.) and also comments upon explicit roles it has within society

Video

Telegarden

<http://www.youtube.com/watch?v=gbyy5vSg8w8>

who am i?

<http://www.youtube.com/watch?v=Y93OkRd1JRk&feature=related>

Art Overview

<http://www.youtube.com/watch?v=4mBDWvcWKPI&NR=1>

Beyond Data

<http://www.youtube.com/watch?v=xHgKBKyd5A4>

Sources

- http://en.wikipedia.org/wiki/Ken_Goldberg
- <http://www.kqed.org/arts/programs/spark/profile.jsp?essid=4536>
- <http://goldberg.berkeley.edu/>
- <http://spectrum.ieee.org/automaton/robotics/robotics-software/ken-goldberg-discusses-telerobots-robots-and-heidegger>