

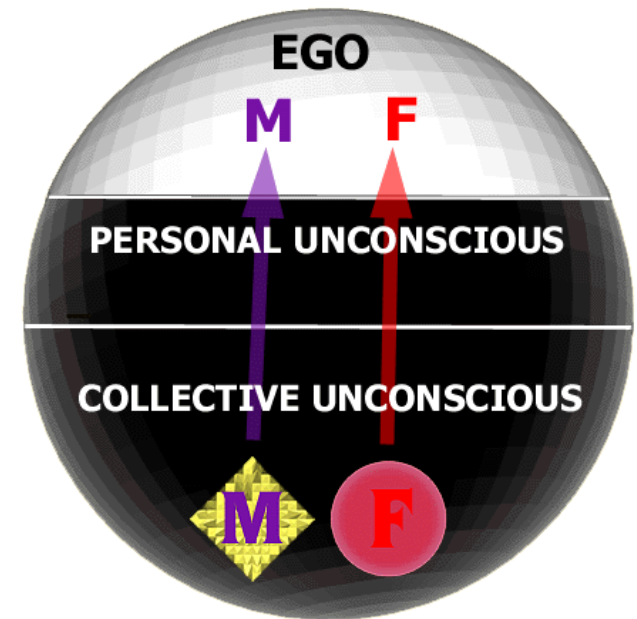
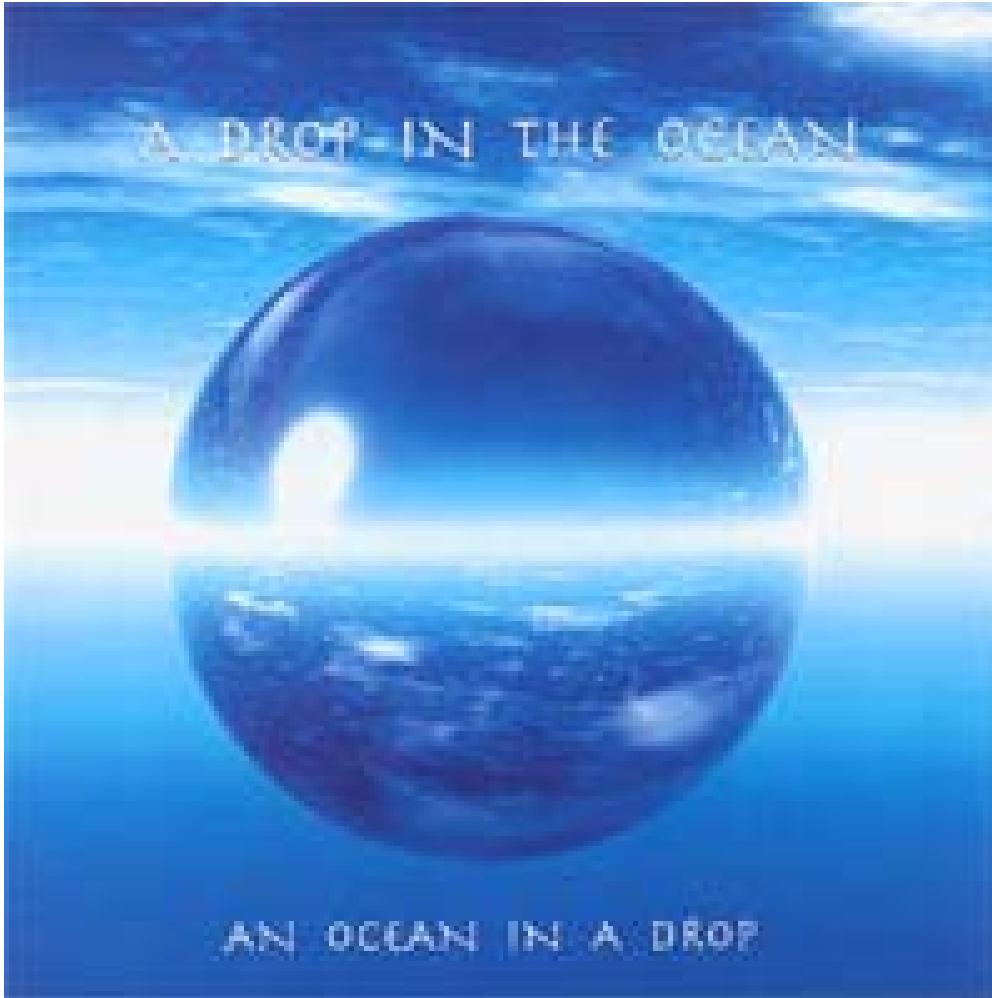
# **Cultural Computing: the ALICE project**

**-- kick off meeting, May 15, 2006 --**

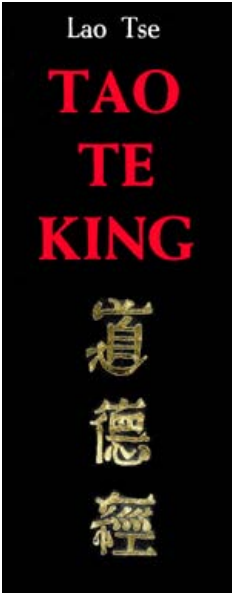
**Sponsored by Microsoft Research**

Matthias Rauterberg  
Eindhoven University of Technology  
The Netherlands

# Cultural Computing: the collective unconscious [PDF]



# Culture: the East



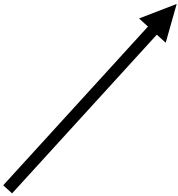
Lao-Tse  
c.604 - c.521 BC



Siddharta Gautama  
563 – c.480 BC



Enlightenment



Bodhidharma  
470-543 AC

# ZENetic computer (2003)



ACM SIGGRAPH 2004 Emerging Technology 選出作品

## ZENetic Computer

コンピュータによる山水禅  
インタラクティブ・インスタレーション

石山 旅 木 老雲

展示日程  
平成16年 5月10日(木) ~ 6月6日(木)  
高台寺北書院 入場料 5千円(料のみ)

関連講座  
平成16年 5月13日(木) 18:30 ~ 20:00 松岡正剛 ソロトーク  
「電子と山水」  
平成16年 5月28日(金) 18:30 ~ 20:00 対談 太田省吾 × 土佐尚子  
「劇的なものとデジタルストーリー」  
両日共に開場は18:00から。  
高台寺 方丈 受講料2,000円、予約制、定員200名

主催：ゼンエティックコンピュータの会  
共催：高台寺、企業・個人、土佐尚子、和田正樹  
協賛：日経新聞  
制作：ミナモトプロジェクト  
協力：フランス・デジタル・メディア・MIT Japan プログラム、科学技術振興機構(文部科学省) 7-01、京都正照寺数米、aoc/yagafory

高台寺は、女性の参拝を認めています。

主催：MIT 写真：MIT Museum での撮影風景

シカゴ、イリノイ州 ミネソタプロジェクト  
tel: 075-212-4450 fax: 075-253-2252  
e-mail: zen@mit.edu



Naoko Tosa

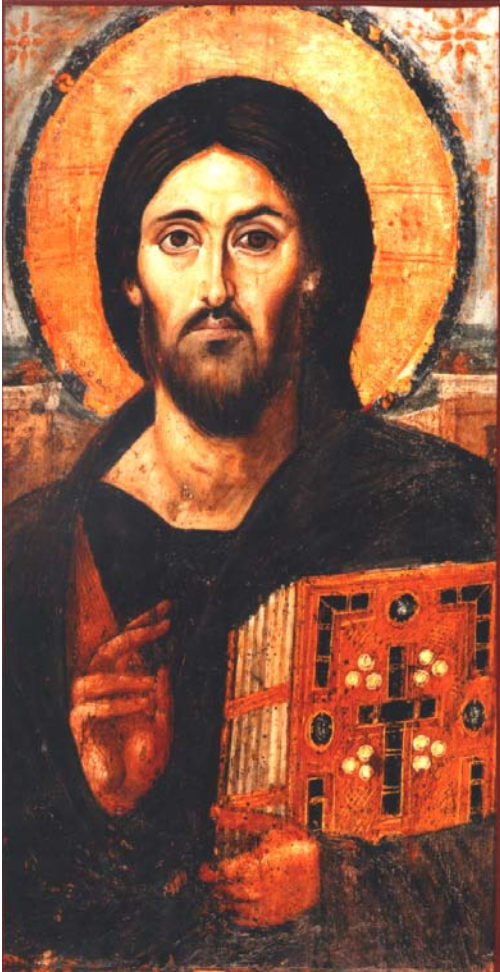


松岡正剛  
Seigo Matsuoka



[link to video clip](#)

# Culture: the West



René Descartes  
1596-1650

**res cogitans** - mind

**res extensa** - body, matter, etc



Immanuel Kant  
1724-1804

synthetic  
*a priori* knowledge:

- **time**
- **space**

both *pure forms of intuition*  
and *pure intuitions*.

Kant about **Enlightenment** [[PDF](#)]

# Culture in the East and West

Cross-cultural psychologist's juxtapose  
Eastern *holistic* and Western *analytic* reasoning.

**Eastern** reasoning embraces contradictions among objects in a yin–yang field of constant change.

**Western** reasoning tends to focus on objects and categories, and is driven by *formal logic*.

Nisbett RE., Peng K., Choi I. & Norenzayan A. (2001). Culture and Systems of Thought: Holistic versus Analytic Cognition. *Psychological Review*, 108(2), 291-310 . [[PDF](#)]



# What would be a Western equivalence to ZENetic Computer?

Possible Answer:

- an interactive experience based on the story of **Alice in Wonderland**



**Charles Lutwidge Dodgson**  
1832-1898



**Stage-1:**

**Theme:**

**Challenge:**

in the park

**TIME**

lure user to the rabbit hole

[pp. 11-12]



[link to video clip](#)



**Stage-2:** down the rabbit hole [pp. 13-14]  
**Theme:** SPACE-environment  
**Challenge:** feeling of free fall



[link to video clip](#)

[link to video clip](#)

**Flow stair lift**



**Stage-3:**

**Theme:**

**Challenge:**

in the hall

SPACE-individual

feeling of growing and shrinking

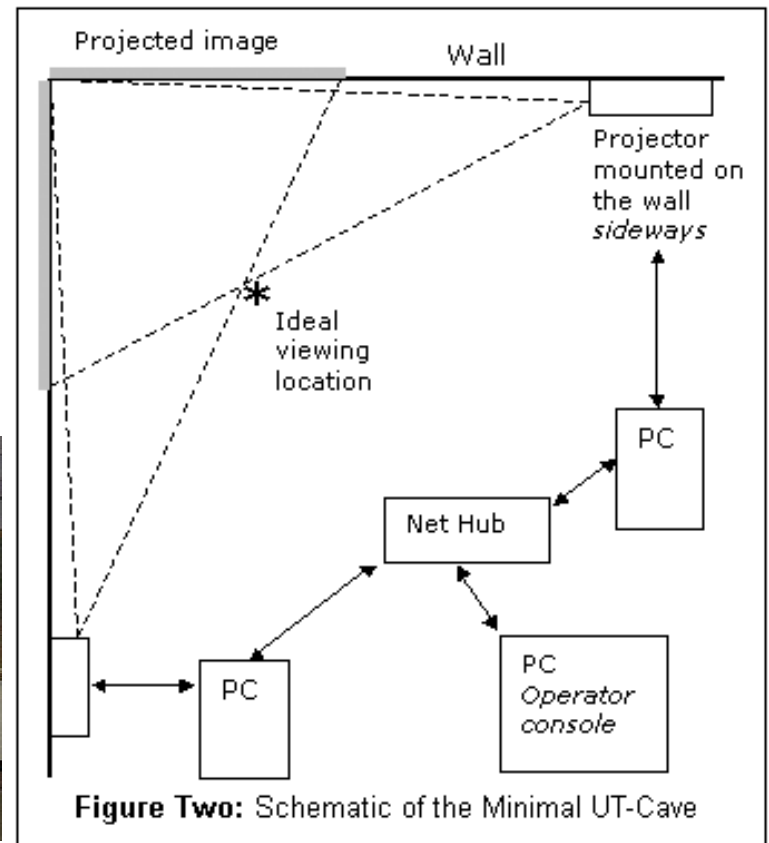
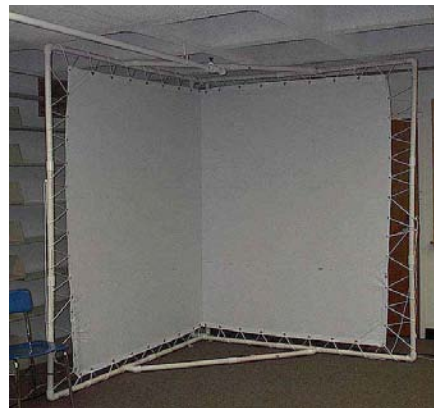
[pp. 14-19]



[link to video clip](#)



CaveUT



**Stage-4:**

**Theme:**

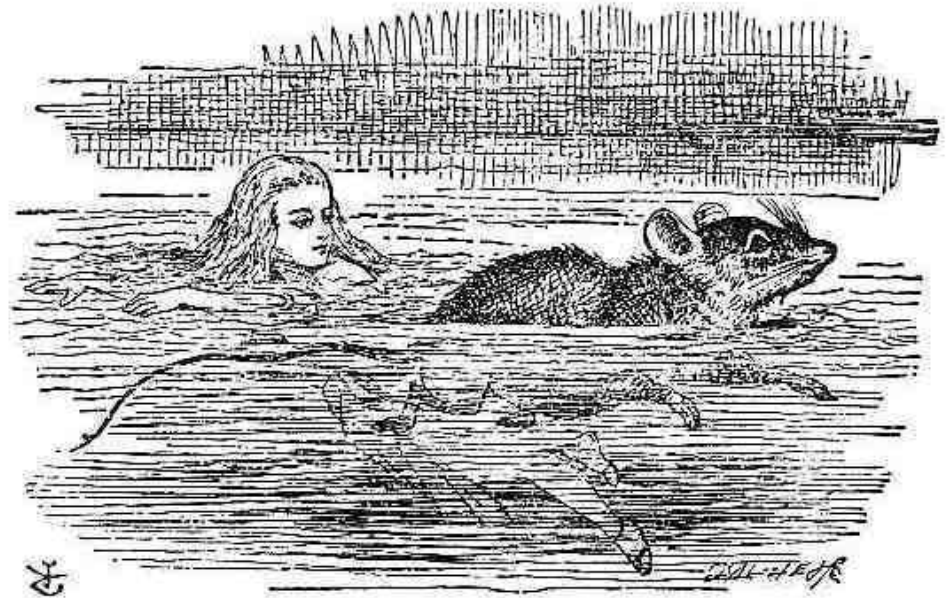
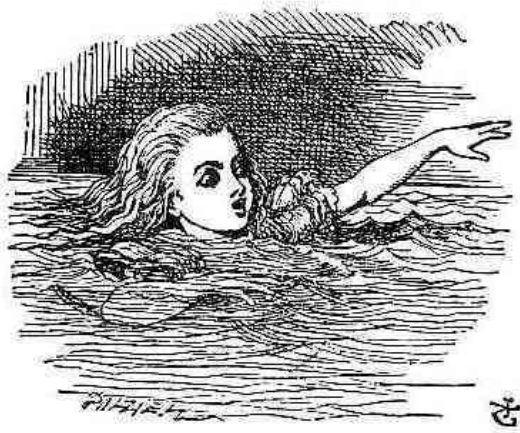
**Challenge:**

in the pool of tears

[pp. 25-27]

**WATER/GENESIS**

feeling of being in water



**Stage-5:** the Caterpillar  
**Theme:** SELF/EGO  
**Challenge:** ESP based dialogue

[pp. 47-53]

# Bachelor project

Tijn Kooijmans

Eindhoven University of Technology  
The Netherlands

**Stage-6:**

the Cheshire cat

[pp. 64-67]

**Theme:**

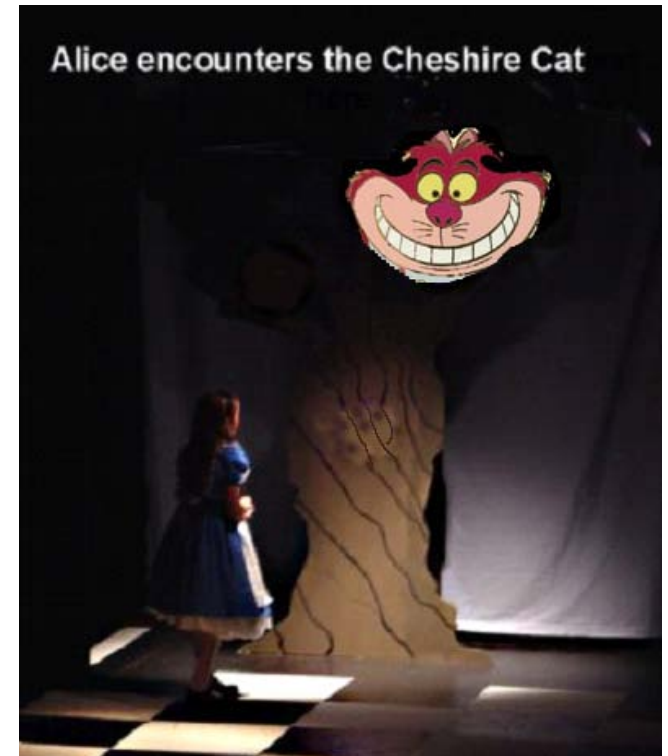
LOGIC

**Challenge:**

discussion about madness



[link to video clip](#)



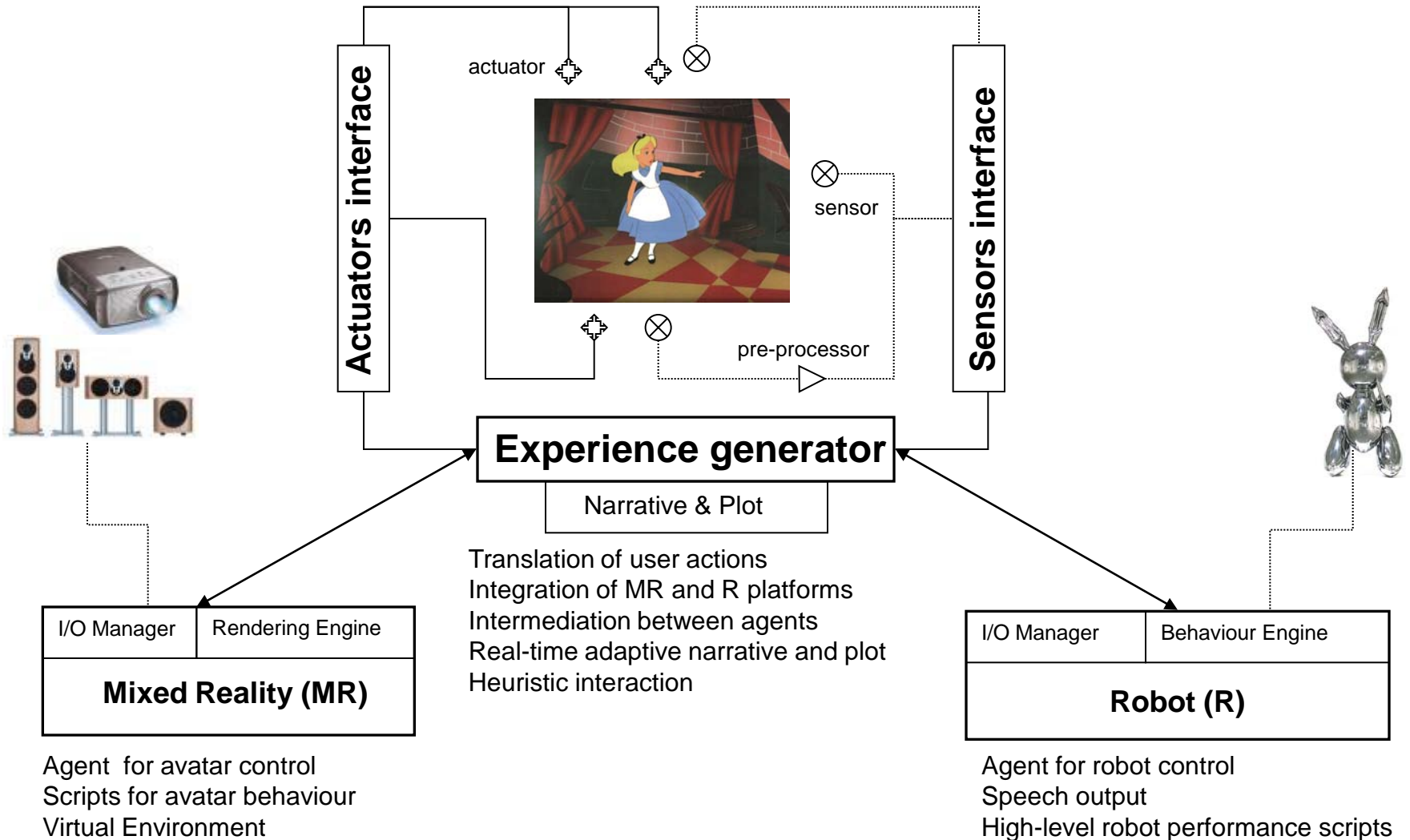


# Design Issues for Stage 1-6:

- narrative, story flow
- identification of main character(s)
- entrance and exit conditions
- required technology
- ...



# Software/hardware-Architecture



# Software Packages



Autodesk® **3ds Max® 8** software builds on our promise to deliver state-of-the-art tools for creative and media professionals. Developed as a total animation package with a deep, productive feature set designed to accelerate workflow, 3ds Max is the leader in 3D animation for game development, design visualization, visual effects, and education. TU/e-ID site license.



Academy Award® winning **Maya® software** is one of the world's most powerfully integrated 3D modeling, animation, effects, and rendering solution. Maya also adds to the quality and realism of 2D graphics. That's why film and video artists, game developers, visualization professionals, Web and print designers turn to Maya to realize their creative vision. Price ca 7000 EUR



**Goblin** is an innovative platform for developing 3D augmented and virtual reality applications and games. It is written in C# and uses Managed DirectX. The platform leverages the unique capabilities of the .NET Framework to provide innovative features such as *Edit-and-Continue*. Free download.

[link to video clip](#)

# Expected Results:

- A research platform for cultural computing
- A prototype for interactive experiences
- Design guidelines:
  - Kansei mediated interaction
  - Robot behavior scripting

Let's go and write history!