# PHILOSOPHY OF COMPUTER SCIENCE



# **COMPUTERS AND SOCIETY**

Gordana Dodig-Crnkovic

Department of Computer Science and Engineering Mälardalen University, 13 May 2004

1

## CONTENT

- COMPUTER ETHICS
- COMPUTER-MEDIATED COMMUNICATION
- INTERNET CULTURE
- DIGITAL ART

2

## **COMPUTER ART**



http://moca.virtual.museum/

,

#### 3D Abstract Art Amichai Shavit



4

# Assembled Photography Peter L. Hammond Burro

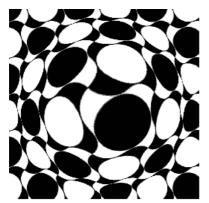


Angelo Di Cicco

No. 43D

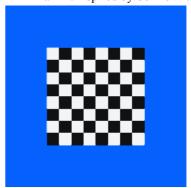


Computer Art inspired by Victor Vasarely



Magic Cube III

Minimal Art inspired by Sol LeWitt



Earl L. Hinrichs <a href="http://computerart.org/a0028-3.html">http://computerart.org/a0028-3.html</a>



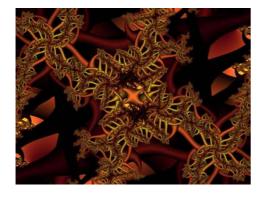
Title: Polished Spiral Karin Kuhlmann 2003 Fractal, Mathematical Art.

Technique: Computer generated Fractal, created with FraxPlorer, Layertechnique.



 $\underline{http://www.starbase1.co.uk/Fractal/fraxplorer/pages}\ dna\_tangler.jpg$ 

Nick Stevens' Fraxplorer Fractals



# Sense, Memory and Media

Art made with digital media is everywhere, the discourse and a conceptual framework for analysis has yet to be established.

Critical analysis leads to discussion of

- the process of creation and
- the process of reception.

# Aesthetic Experience

- the digital effect
- the interactive
- the immersive (virtual reality, etc)

**Digital Art Museum** the history and practice of digital fine art.



http://dam.org/

14

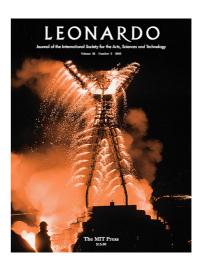
• Phase 1: 1956 - 1986 The Pioneers

The pioneers of digital art, some of whom were not primarily artists, but whose visual explorations were crucial to the emerging medium. *The writing of computer programmes* was central to most of the work during this period.

- Phase 2: 1986 1996 The Paintbox Era
  In this period art software became available (slowly at first), attracting artists who could create works without programming. The principle software to emerge during this period was the paint programme, underpinned by affordable computers and devices such as the scanner and film recorder.
- Phase 3: 1996 2006 The Multimedia Era
  Growing availability of technologies of interactivity and
  Internet access lead to a *democratisation* of the medium and
  new interactive and online artforms.

15

13

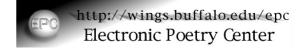


16

#### **ART** definition

- Modes of expression that use skill or imagination in the creation of aesthetic objects, environments, or experiences that can be shared with others. (www.dictionary.com)
- 2. Human effort to imitate, supplement, alter, or counteract the work of nature. (www.dictionary.com)
- 3. The conscious production or arrangement of sounds, colors, forms, movements, or other elements in a manner that affects the sense of beauty, specifically the production of the beautiful in a graphic or plastic medium. (www.britanica.com)

Ethics and politics: democratization vs. the panopticon



E-Poetry

http://epc.buffalo.edu/e-poetry/

17

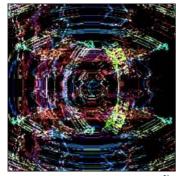
## Before Sleep

I need to find

# one thin tear http://www.art.net/studios/visual/stowe/sleeptear1.htm

# Interactive hyperpoetry & hyperimages

Were either of us Icarus?



http://www.art.net/studios/visual/stowe/odea.htm

## Reference

The Blackwell Guide to the Philosophy of Computing and Information, Part II, Chapters 5-8 Luciano Floridi, Ed.