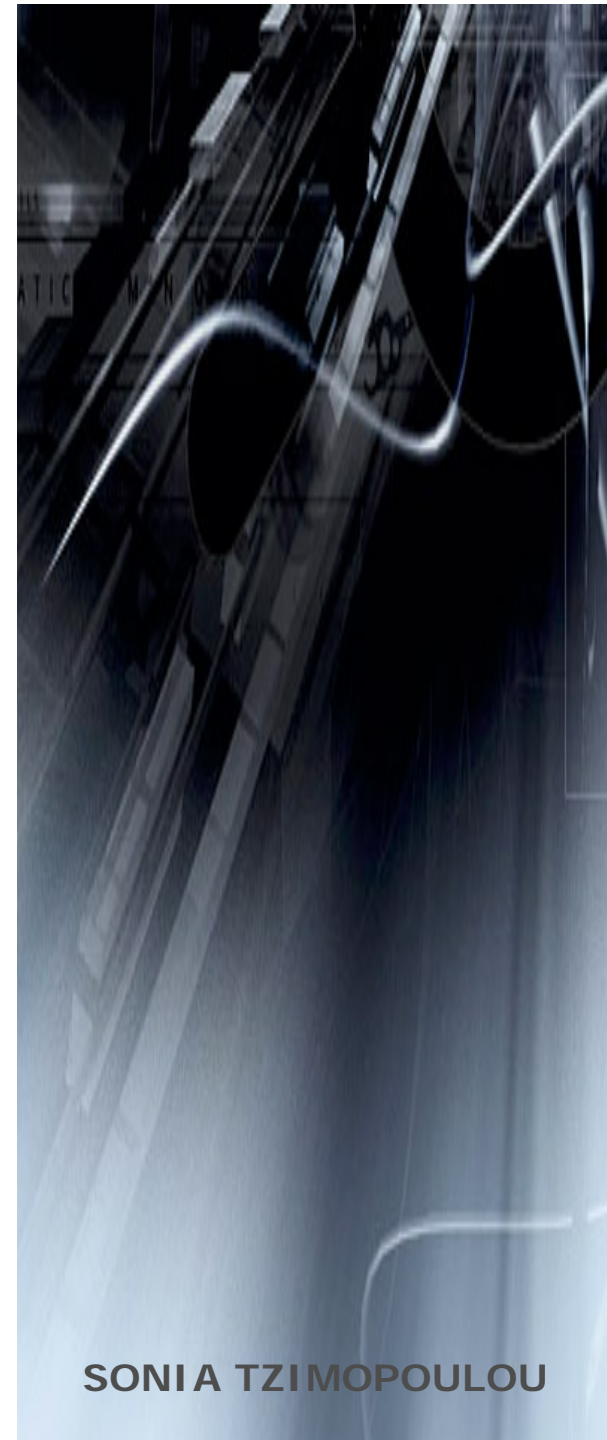


ASPECTS OF VIRTUALITY

A space of conversions



SONIA TZIMOPOULOU

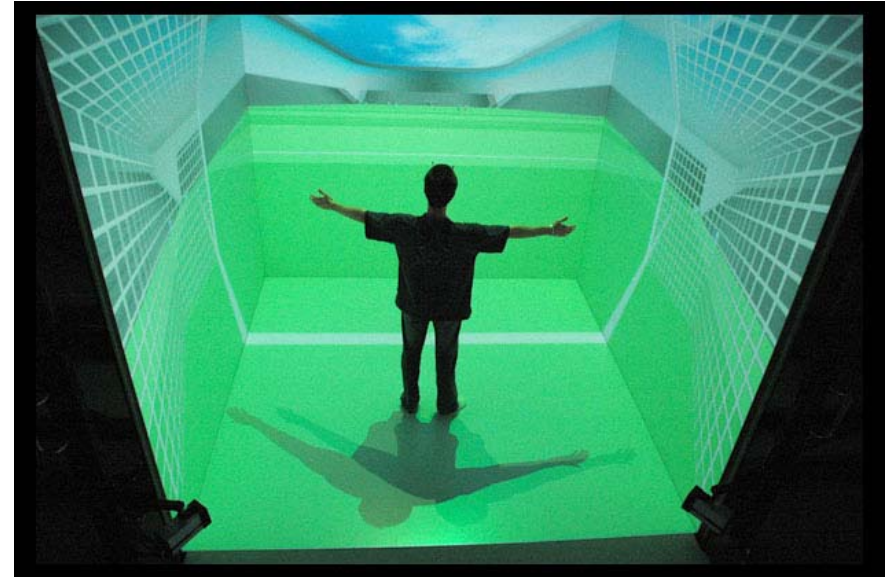
Transformation of the notion of virtual space

Virtual space: an autonomous reality



Merged reality of physical- digital





virtual reality is "the artificial world of three dimensional images that creates the computer and to which the user can participate and interact with the elements that consist that "world", by using his senses"

Nicholas Negroponte

90s

overwhelming enthusiasm for virtual reality as the materialisation of a distinct autonomous reality

simulation environments

cyberspace: an infinitely dense matrix of lines and connections

cyberspace: a non-material space



Gibson, W., 1984, Neuromancer, Voyager, London



Cyberspace

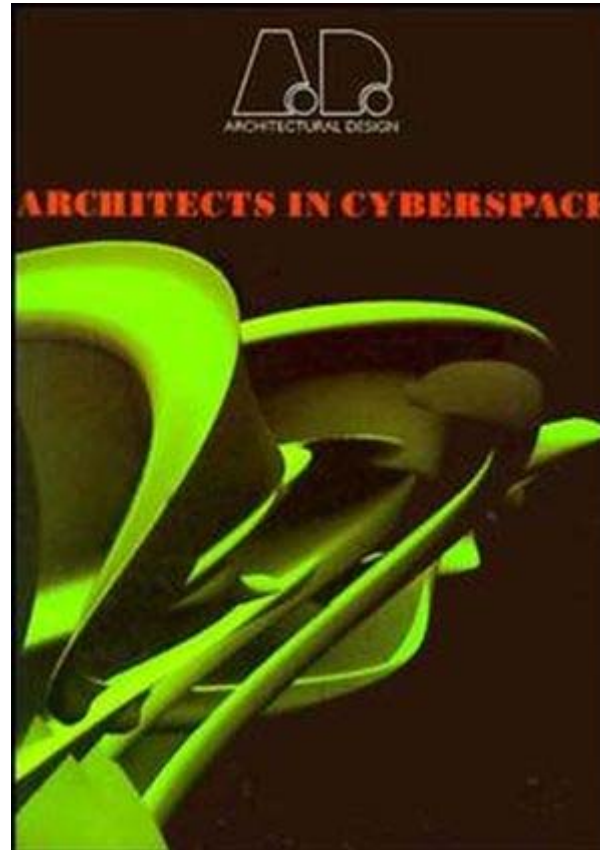
Johnny Mnemonic by William Gibson

"a consensual hallucination experienced daily by billions of legitimate operators, in every nation...

A graphic representation of data abstracted from banks of every computer in the human system. Unthinkable complexity.

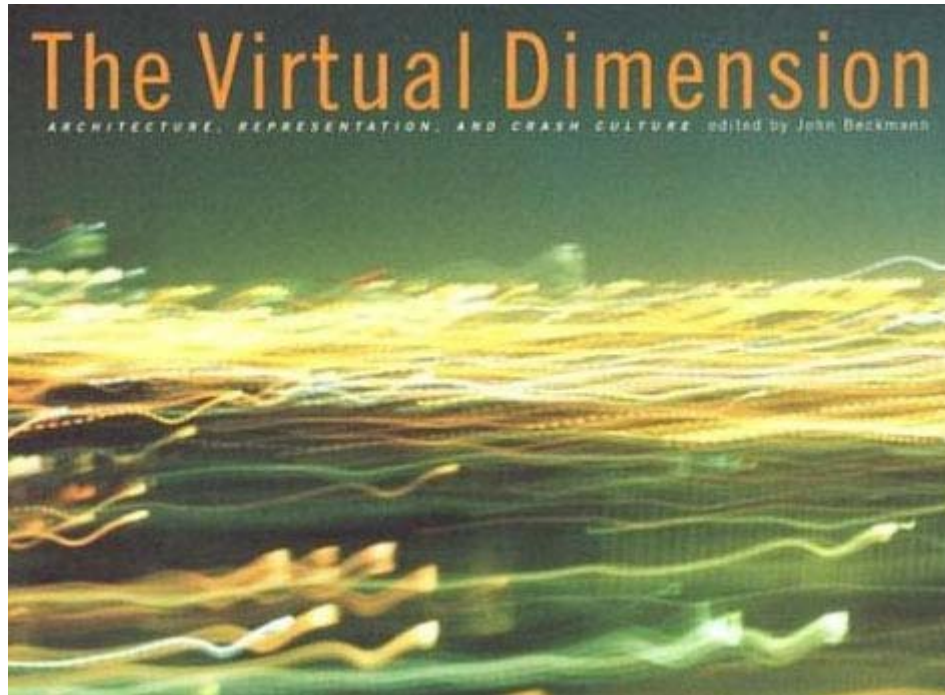
Lines of light ranged in the nonspace of the mind, clusters and constellations of data. Like city lights, receding... "

William Gibson in "Neuromancer"



The Virtual Dimension

ARCHITECTURE, REPRESENTATION, AND CRASH CULTURE edited by John Beckmann



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THE PEARLY GATES

a history of space from Dante to the Internet

OF CYBERSPACE



MARGARET WERTHEIM

'AN ELOQUENT, POWERFUL
AND ORIGINAL BOOK'

OLIVER SACKS

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space of transcendence

Wertheim
Stephenson

Baudrillard Virilio Benedict

VIRTUAL SPACE

Picon
Rajchman
"Virtual" is not opposed to "real" but to "actual"

Deleuze
Lévy
Massumi
Papalexopoulos

Baudrillard, J. (1983), Simulations, New York, Semiotext(e)

Benedikt, M. (1991), Cyberspace First Steps, MIT Press (1992)

Wertheim, M.(1999), The pearly gates of cyberspace. A history of Space from Dante to the Internet, New York, W.W. Norton & Company

Stephenson, N. (1992), Snow Crash, New York, Bantam

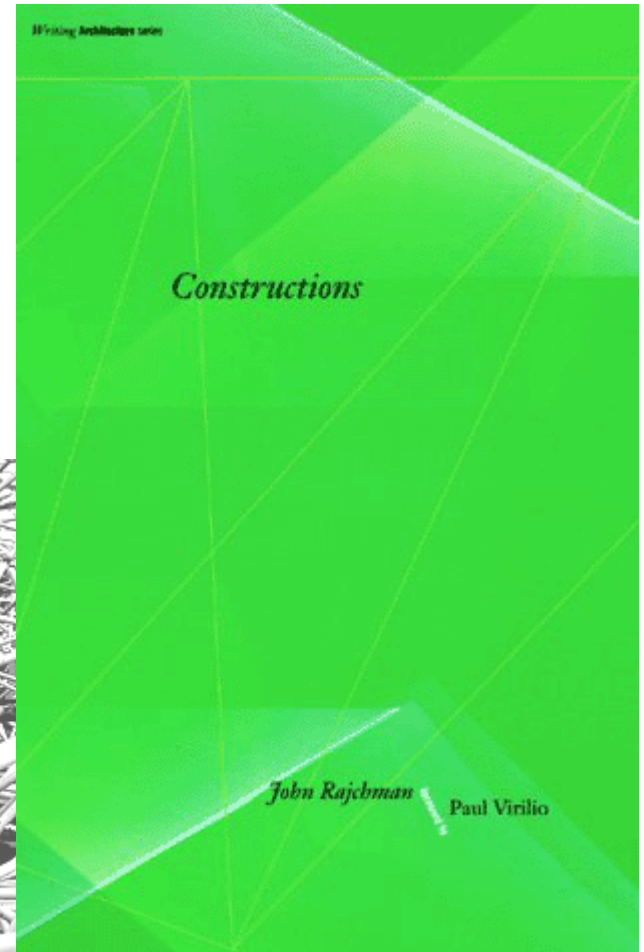
Deleuze, G. (1968), Difference and Repetition, New York, Columbia University Press (1994)

Lévy, P. (1995), Δυνητική Πραγματικότητα, Αθήνα, Εκδόσεις Κριτική (1999)

Παπαλεξόπουλος, Δ. (2002), "Ο επαναπροσδιορισμός της αρχιτεκτονικής αναφοράς στην τεχνολογία. Εικονικό ("εν δυνάμει") και πραγματωμένο (actual)"

Picon A., Ponte A. (eds.), Architecture and the Sciences Exchanging metaphors, New York, Princeton Architectural Press

Massumi, B. (2002), Parables for the Virtual: Movement, Affect, Sensation, London, Duke University Press (2005)



"the actual is what manifests
and effectuates the virtual,
but the actual never completely
shows or activates all that the virtual implies

"**virtual** mobilises as yet unspecifiable singularities,
bringing them together in an indeterminate plan"

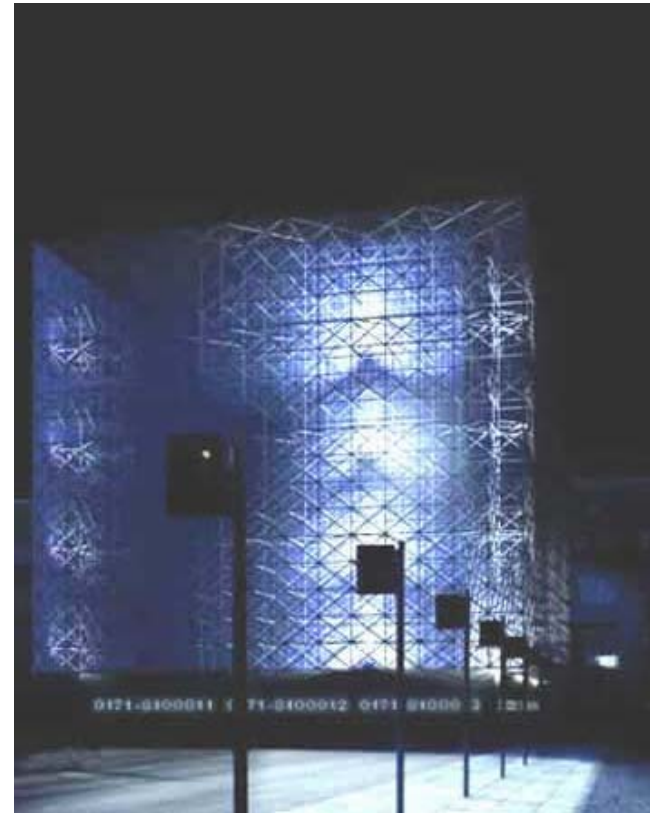
today

computers tend to disappear

the boundaries between physical and digital space
are blurred

digital spaces can adapt to our everyday world

“miniaturized instruments of displacement become
extensions
of the mobile body”



Christian Möller-Kaleidophone_ interactive installation

Mitchell, W., 2005, “After the revolution-
Instruments of Displacement”, in
Flachbart, G., Wibel, P. (eds), 2005,
Disappearing Architecture : From real to
virtual to quantum, Birkhäuser

Lev Manovich

augmented space

multiple levels of information in the physical space

Ubiquitous Computing

Augmented Reality

Tangible Interfaces

Wearable Computers

Intelligent Buildings

Intelligent Spaces

Context-aware

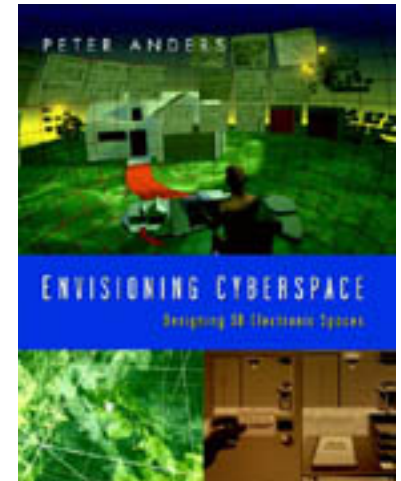
Smart Objects

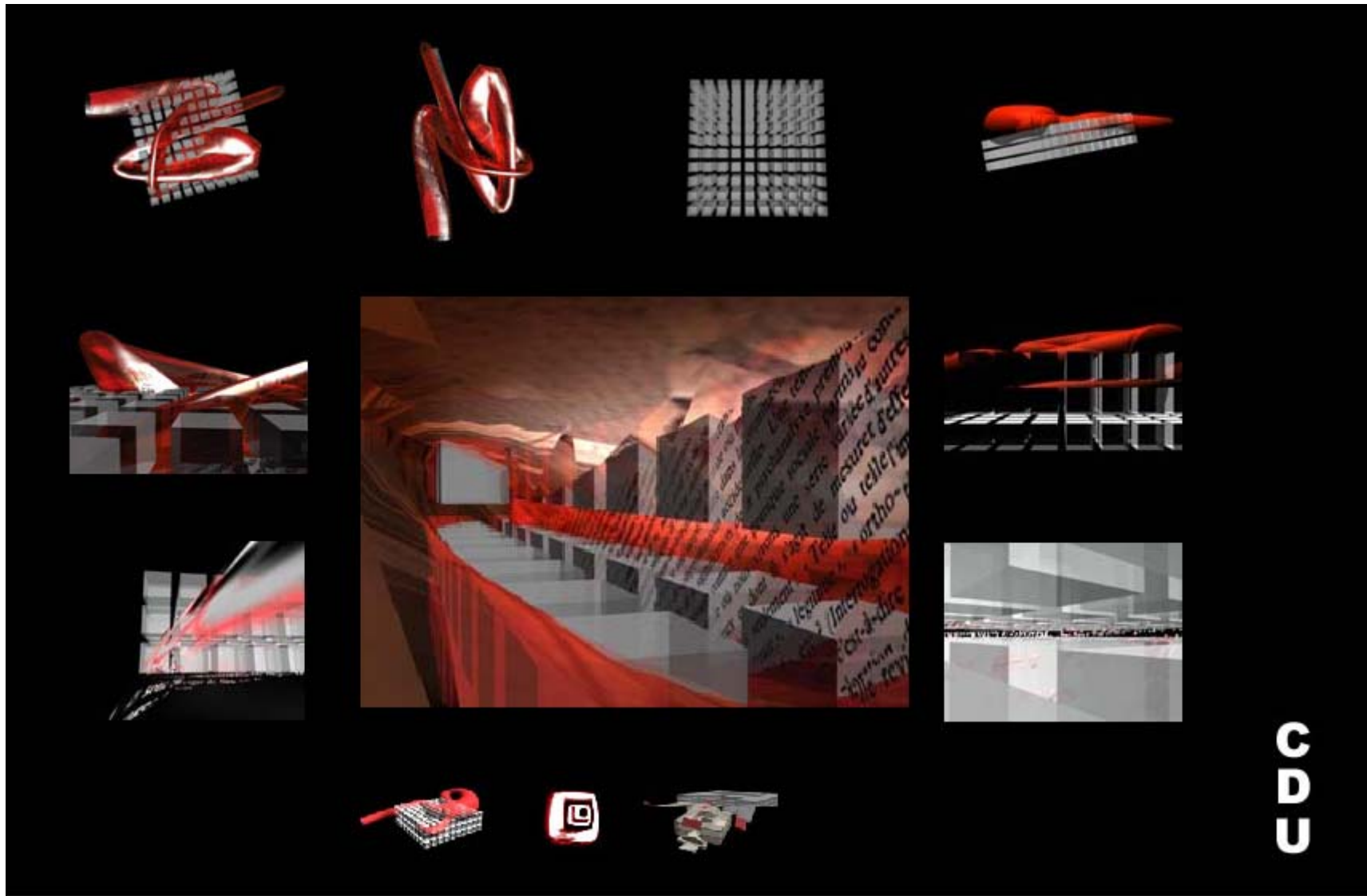
Wireless Location

Sensor Networks

E-paper





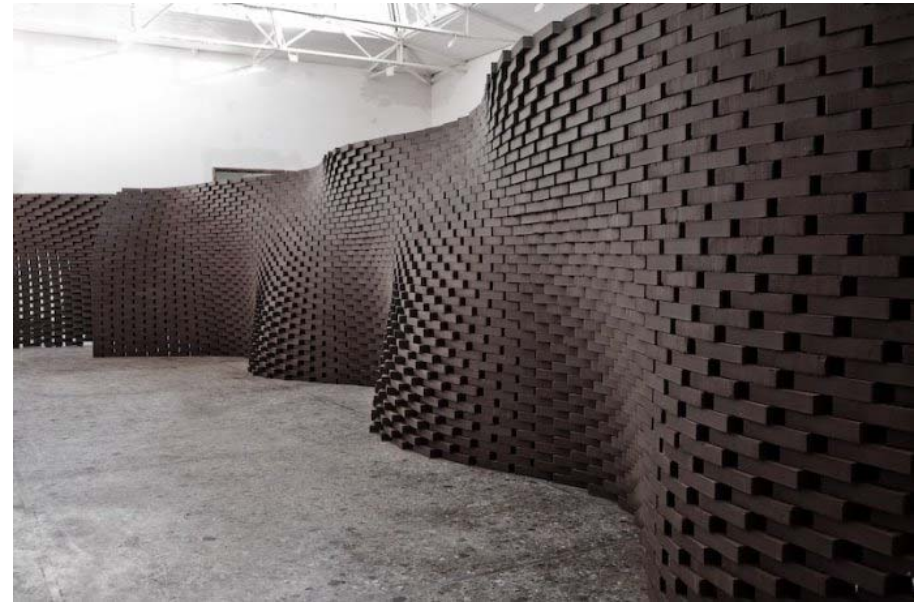


CDJ

<http://www.acadia.org/competition-98/winners.html>

http://www.acadia.org/dde/links/launch/D_207.html





Fabio Gramazio and Matthias Kohler robotic aided construction.

...**materiality** will probably remain a fundamental feature of architectural production. ...Beyond perception, our everyday gestures and movements are indebted to our machines and their specific requirements. In such a perspective the impact of the computer may more accurately be described as a reshaping of, rather than an estrangement from physical experience and materiality.

Antoine Picon

