International Conference on Knowledge Generation, Communication and Management KGCM 2007

July 8-11, 2007, Orlando, Florida (USA)
http://iiis-cyber.org/kgcm2007/

Keynotes

Dr. Gary Metcalf
President Elect of The International Society for the Systems Sciences
Vice-president of The International Federation for Systems Research

Prof. Stuart A. Umpleby
The George Washington University
Former President of The American Society for Cybernetics

Dr. Allena Leonard
Former President of The American Society for Cybernetics

Dr. Vernon E. Francis
Associate Professor at The University of Dallas
Knowledge Generation

- Cybernetics & systemic view
- Dynamics
- Non-linear
- Holistic
- Context dependent
Knowledge Generation as Natural Computation

KGCM - International Conference on Knowledge Generation, Communication and Management

July 8-11, 2007 – Orlando, Florida, USA.

Gordana Dodig-Crnkovic
http://www.idt.mdh.se/personal/gdc/
Department of Computer Science and Engineering
Mälardalen University, Sweden
Investigations into Information Semantics and Ethics of Computing

Computation
Information
Computation as Information Processing
Ethics of Computing
Open Problems Revisited
Research Results
Future Research

Dodig-Crnkovic G., Bookrest 2
Oil on kanvas

Where Do New Ideas Come From? How Do They Emerge? Epistemology as Computation (Information Processing)

NKS 2007 Wolfram Science Conference

July 15, 2007 – University of Vermont, Burlington

Gordana Dodig-Crnkovic
http://www.idt.mdh.se/personal/gdc/
Department of Computer Science and Engineering
Mälardalen University, Sweden
WOLFRAM RESEARCH MATHEMATICA
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Long recognized as the world’s most powerful mathematical software system, Mathematica has steadily grown in breadth and depth to become today an unparalleled platform for all forms of computation.

http://www.releases.ws/applications/rapidshare-torrent/wolfram-research-mathematica-v6-0-1-windows-edgeiso

http://www.wolfram.com

http://www.wolframscience.com/nksonline/toc.html
The University of Vermont
E-CAP 2005 Sweden
European Computing And Philosophy Conference

Greg Chaitin - *Alan Turing Lecture on Computing and Philosophy*,
Epistemology as Information Theory: From Leibniz to the Omega Number
http://www.idt.mdh.se/ECAP-2005/
In the conclusion of Epistemology as Information Theory: From Leibniz to $\Omega$, Chaitin leaves us with the following assignment:

“In fact, I believe that this is actually the central question in biology as well as in mathematics; it's the mystery of creation, of creativity: Where do new mathematical and biological ideas come from? How do they emerge?”
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Where Do New Ideas Come From? How Do They Emerge?

- Info-computational universe
- Organisms are information-processing computational systems
- We as other living organisms are open systems
- Interaction is central for all life
- Evolution is the basic mechanism that helps us understand cognition, from simplest cognitive systems (organisms) to more and more complex ones
- Persistent patterns of interaction with the environment leave trace on the cognitive structures of the organism
- Epistemology naturalized on the most basic level by info-computationalism
Presentations from the book
Randomness & Complexity: From Leibniz to Chaitin
Ch. Calude Ed.

Cristian Calude, "Proving and Programming"
John Casti, "Greg Chaitin: Twenty Years of Personal and Intellectual Friendship"
Karl Svozil, "The Randomness Information Paradox: Recovering Information in Complex Systems"
Paul Davies, "The Implications of a Cosmological Information Bound for Complexity, Quantum Information and the Nature of Physical Law"
Gordana Dodig-Crnkovic, "Where Do New Ideas Come From? How Do They Emerge? Epistemology as Computation (Information Processing)"
Hector Zenil, "On the Algorithmic Complexity for Short Sequences"
Gregory Chaitin, "On the Principle of Sufficient Reason"
North American Computers and Philosophy Conference

NA-CAP @ Loyola University Chicago
July 26-28, 2007

Info-Computationalist
Epistemology Naturalized

Gordana Dodig-Crnkovic
http://www.idt.mdh.se/personal/gdc/
Department of Computer Science
and Engineering
Mälardalen University, Sweden
Cognitive Science, AI and Robotics
Moderator: Konstantin Läufer

What is a Digital State?
Vincent C. Müller

Digits, Strings, and Spikes: Empirical Evidence against Computationalism
Gualtiero Piccinini

Info-Computationalist Epistemology Naturalized
Gordana Dodig-Crnkovic
Panel: A Global Online Course in Computers and Philosophy  
Moderator: Piotr Boltuc

Interdisciplinary Distance Learning in Computing and Philosophy  
Gordana Dodig-Crnkovic

What a Course on Philosophy of Computing Is Not  
Vincent C. Müller

The Use and Abuse of Philosophers and Computer Scientists Teaching Computer Ethics Online  
Keith Miller
Computation, Information, Cognition: The Nexus and the Liminal
Editors: Gordana Dodig Crnkovic and Susan Stuart
