LABORATORY FOR COMPUTER SCIENCE

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

PHYSICS OF COMPUTATION SEMINAR

Date: Wednesday, January 19, 1994
Time: 2:00pm
Place: 6-120

OCCAM, TURING, JAYNES, or How much can you get for how little? (An introduction to cellular automata)

Tommaso Toffoli
Information Mechanics Group
MIT Laboratory for Computer Science

Ostensibly, the talk will be about fine-grained models of physical systems.

The real goal, however, is to give a modern introduction to cellular automata—viewed as a discipline for extremely reductionistic thinking, as well as a laboratory where such thinking can be put into practice.

Host: Norm Margolus

This talk is part of a new seminar series on adapting computers and computations to the constraints of, and opportunities afforded by, microphysics; and on the development and application of the physical theory of computation and information. This series is being sponsored by the MIT Information Mechanics Group (Lab for Computer Science), in conjunction with the MIT Physics and Media Group (Media Lab), the MIT Porous Flow Project (Earth, Atmospheric and Planetary Sciences), and the Mathematical Sciences Research Group at Thinking Machines Corporation.

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