Harvard University
Computer Science Colloquium Series
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Colloquium

Iterative Coding Systems: Back From Infinity
The behavior of iterative coding systems is by now fairly well understood in the case of infinite blocklengths

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4:00PM
Maxwell Dworkin G125

Abstract
In this talk I will focus on the finite length behavior of such systems.

In particular I will show that for the binary erasure channel the determination of the finite length performance leads to a (more or less tractable) combinatorial problem and that finite length optimization for the erasure channel seems to be just around the corner. Although the binary erasure channel will, once again, take center stage in this talk, I will point out that, at least empirically, the same error mechanisms seems to determine the finite length behavior for general channels.

Web page: http://lthcwww.epfl.ch

Host: Professor Michael Mitzenmacher