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Holographic Data Representations

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Holographic representations of data encode information in packets of equal importance that enable progressive recovery. The quality of recovered data improves as more and more packets become available. This progressive recovery of the information is independent of the order in which packets become available. Such representations are ideally suited for distributed storage and for the transmission of data packets over networks with unpredictable delays and or erasures.

(Talk based on joint work with A. Netravali, Bob Holt, Fred Ezerman, Ling San, Adamas Fahreza, Yehuda Dar, over the years 1998-2022)

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