Restoration of Information in Distributed Databases

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In the talk we present a novel approach for encoding and restoration of lost data in a distributed database system. Whenever a fault of a node in such a system happens then the data located in that node becomes inaccessible. To guarantee a high level of data availability it is desirable to investigate the possibility of restoring the lost data by using the contents of some other nodes in the system. To tackle this challenge we discuss the dependency between informational redundancy and the restoration rate, and present algorithms for constructing the trajectory of decoding.