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# P2P Techniques for Decentralized Applications

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*SYNTHESIS LECTURES ON DATA MANAGEMENT*

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## P2P Techniques for Decentralized Applications (Synthesis Lectures on Data Management)



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As an alternative to traditional client-server systems, Peer-to-Peer (P2P) systems provide major advantages with regards to scalability, autonomy and dynamic behavior of peers, and decentralization of control. Thus, they are perfect for large-level data sharing in distributed conditions., DHTs) for effective indexing, or unstructured systems for ease of deployment, or some combination.g. The majority of the existing P2P approaches for data sharing depend on either structured systems (e. In this reserve, we will give an overview of these different P2P techniques and architectures, discuss their trade-offs, and illustrate their make use of for decentralizing many large-scale data sharing applications. To handle these limitations, gossip protocols which are easy to deploy and scale well, could be exploited. However, these approaches have some restrictions, such as lack of freedom for data positioning in DHTs, and high latency and high network visitors in unstructured networks. Desk of Contents: P2P Overlays, Query Routing, and Gossiping / Articles Distribution in P2P Systems / Recommendation Systems / Top-k Query Processing in P2P Systems



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