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### Dynamically Distributed Parallel Permanent Connection - D2P

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Abstract - Literature reported that the Peer -to -Peer (P2P) networks is heavily used for content distribution applications and are becoming increasingly popular for inter file sharing. Generally the download of a file can take from minutes upto several hours descending on the level of network congestion or the service capacity fluctuation. This paper considers two major factors that have significant impact on average download time, namely the spatial heterogeneity of service capacities in different source peers and the temporal fluctuation in service capacity of a single source peer .We prove that both spatial heterogeneity and temporal correlations in service capacity increase the average download time in P2P networks and then analyze a simple, distributed algorithm to minimize the file download time.