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Lakshmi Iswara Chandra Vidyasagar* (laks_vs@yahoo.com) and **Praveenkumar Khethavath.** *Resource Allocation in Hierarchical Distributed Cloud Using Weighted Component Edge Connectivity.* Preliminary report.

The main goal of the project is to develop novel resource discovery algorithms in a hierarchical distributed cloud. In order to perform the resource discovery, we intend to use the weighted order edge connectivity mechanism. In this mechanism, we assign weight to the edges connecting two nodes. This weight will be able to determine the traffic between two or more nodes, based on which we will be able to discover nodes, with in a certain weight such that performance of the resource offered is not compromised. (Received March 15, 2017)