Tuesday 5th of April 2016 (Supervisor Meeting)

Apologies; WF

**Agenda**

1. **Algorithm Update (WL, LS, NA, HOB)**

The current implementation of the caching algorithm was presented to KL. KL made a number of suggestions in relation to the cache suggestion trigger for the popularity caching algorithm. In relation to the time decay of content popularity, KL recommended the use of an exponentially weighted moving average calculation as it is both computationally efficient and allows for a smoothed decay.

Following discussion on the current implementation we have agreed to implement a number of variations on the popularity caching theme

* No cache suggestion messages are passed to neighbouring nodes, caching occurring only on the basis of the local node cache policy
* Cache suggestion sent to all adjacent nodes (no acceptance policy)
* Cache suggestion sent to all adjacent nodes, but caching only taking place according to local acceptance policy
* Repeat of above variations with the addition of dynamic suggestion/acceptance thresholds that are functions of cache size or request count
* Our algorithm currently implements a linear popularity decay based on the Icarus event clock. We will try to implement an exponential decay factor.

1. **Visualisation Update (DL)**

DL presented KL with the plan for the network visualisation and demo. KL was happy with the plan to base the simulation on the event log from the simulator. KL also suggested that the demo should focus on a particular component of the algorithm at any each point, using one piece of content, to make clear the process of the algorithm.

Tasks to be completed

**Next Meeting with Supervisor**

* Meeting with KL on Tuesday 19th of April (3pm).