Paper Reviewing and Analysis

Paper #1: Coupons: A Multilevel Incentive Scheme for Information Dissemination in Mobile Networks

Familiarity: Novice

Recommendation: Definite Accept (top 5%, excellent paper)

Strengths:

This paper presented a promising novel solution to the problem of information dissemination in mobile networks. This paper proposed a solution that will solve more than just a single problem; it presents a platform that is implementable by all applications which could potentially promote novel applications.

Weaknesses:

Introduction was a little extensive; I failed to identify the primarily objective at first. Adding a specific example that illustrates how the system could be used in a real-world environment would help the audiences to understand. In addition, the performance of the Coupons system in large-scale environments is unknown.

Detailed Comments:

This paper was able to present a novel solution to a known problem. The Coupons transmission scheme presented an improved solution to efficiently transmit information while considering network efficiency, which is nonexistent in the existing flooding schemes.

Thorough evaluation is one of the strongest strength of this paper. From basic to extended, the thorough evaluation shows authors' effort in considering all possible scenarios. Specifically, the consideration of different malicious behaviors in the evaluation gave insight to how the scheme would perform outside of the testbed and in a real-world environment.

The availability of small testbed result indicated the maturity of the Coupons transmission scheme. This paper shows a promising solution to the problem of information dissemination in mobile networks.

The paper is excellent overall. It has a sound structure and a very detail evaluation section. Each section was well structured and categorized, and the use of graphs in combinations with detail comparisons shows the benefit and loss with each scheme.

Paper #2: ISP-Friendly Peer Selection in P2P Networks

Familiarity: Some Knowledge—Familiar

Recommendation: Accept if room (Top 30% but not top 15%, borderline)

Strengths:

This is paper discussed an important topic that has been a concern for both the Internet Service Providers and Peer-to-Peer users. The proposed solution, if implemented, could be greatly beneficial to the ISPs as it reduces cross-ISP traffics. In addition, the paper proposed a novel solution to the problem that is commonly seen on other ISP-Friendly P2P Network where peers are trapped locally. Overall, the paper is well structured and the author was able to present the solution clearly.

Weaknesses:

The paper lacks originality. While many solutions have been proposed in regard to an ISP-Friendly P2P Network, this paper failed to compare and distinguish itself from the rest.

The proposed solution required P2P systems to cooperate with the ISPs, without any benefits, P2P systems have little motives to cooperate.

The proposed solution was unable to be deployed on testbed but only on simulators. Real performance of the proposed system is largely unknown

Transitions between sections were absent.

Detailed Comments:

While this paper did simply just combine the two existing focuses in regard to ISP-Friendly P2P network: locality awareness and overlay topology network, the paper proposed a novel solution to prevent peers from trapping locally which has been a primary concern in many other ISP-Friendly P2P networks. However, there is no performance comparison or evaluation between this proposed solution to any other ISP-Friendly P2P network.

With the service of Oracle unavailable from ISPs, the proposed solution was only evaluated on a simulator. Malicious behaviors and other user activities could greatly alter the system performance when it is deployed to the real world. The paper could greatly benefit from additional measurements and testing environments.

Overall, the paper is well structured and very easy to follow and understand.