

1106-94-1020 **Kristin E. Lauter*** (klauter@microsoft.com). *Network Coding and Applications*.

Network Coding has been proposed as a technique to maximize throughput in peer-to-peer content distribution networks. While optimizing for throughput, such systems also become extremely vulnerable to pollution attacks, where garbage is injected into the network by a malicious node and recombined with the content. This talk will survey some applications of Network Coding and some solutions from cryptography which help defend against pollution attacks. (Received September 09, 2014)