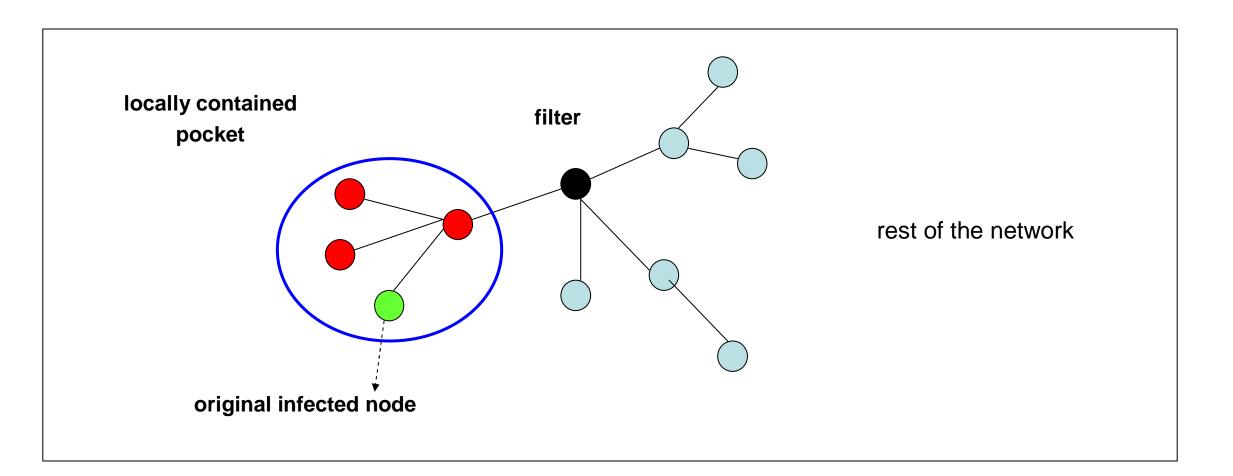
Global Purification of Internet Streams

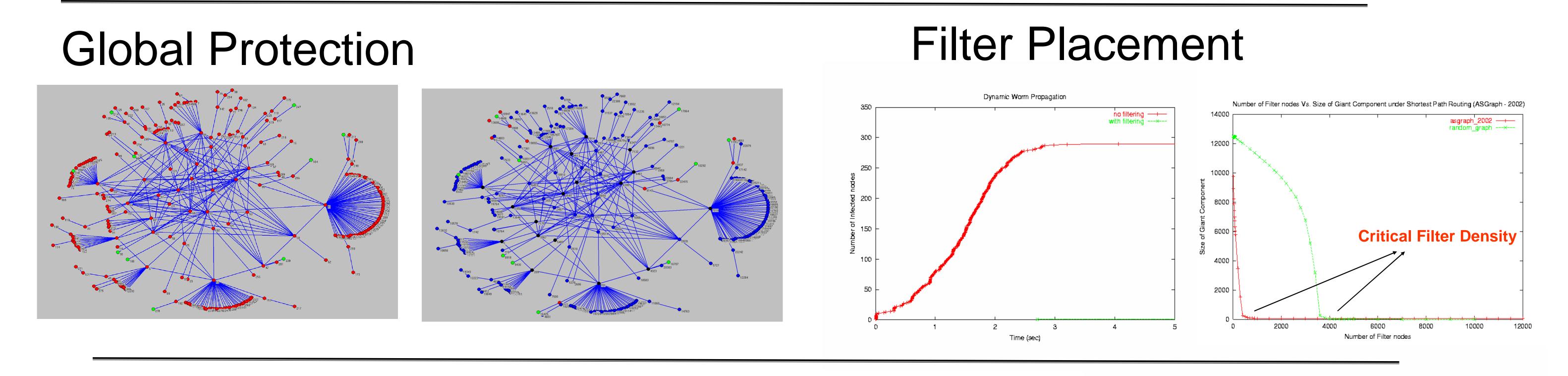
Kihong Park (PI), Bhagya Bethala, Hyojeong Kim, Ikkyun Kim, Ali Selcuk, Wonjun Lee Network Systems Lab, Department of Computer Sciences, Purdue University

Motivation

- Various malware on the Internet
 Internet worms (Codered, Blaster)
 Mass mailing worms, spam, virus
 Global vs. Local solution
- Approach
- Filtering at transit points

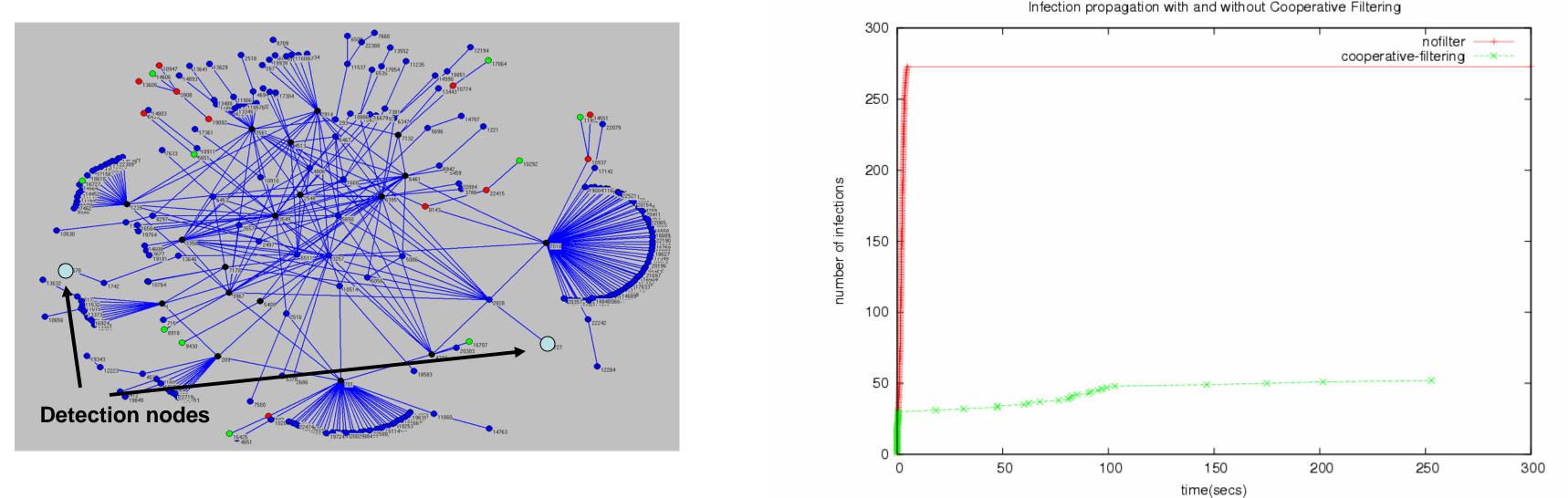
 → Compromised computers can be used for malicious purposes
 → Billions of dollars damage • Feasible: Partial deployment, Automation





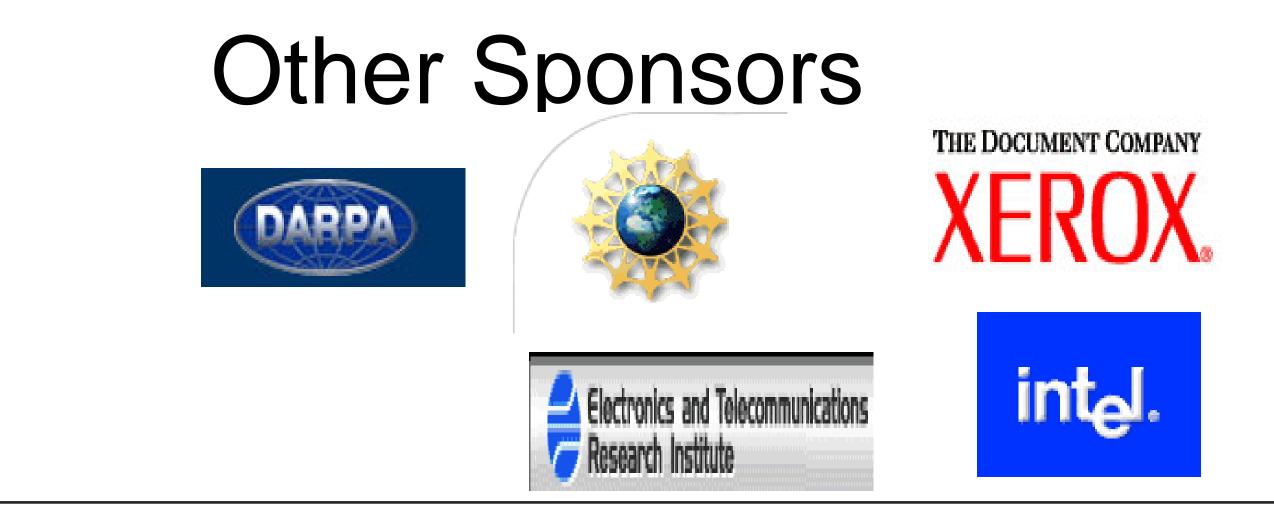


- Defense against zero-day attack
- Detection and Filter nodes cooperate



Simulation and Implementation

DaSSFNet simulator



Simulating 16900+ nodes Implementation of worm filtering device Currently supporting 1 Gbs





