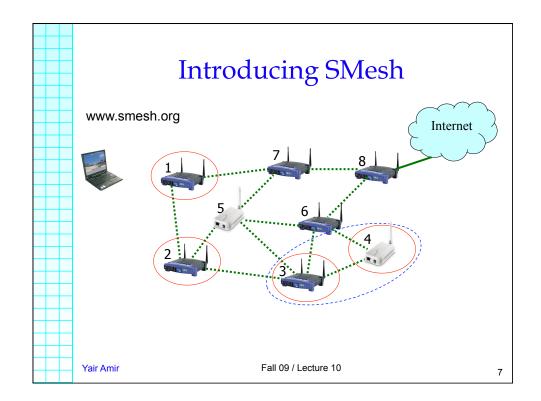
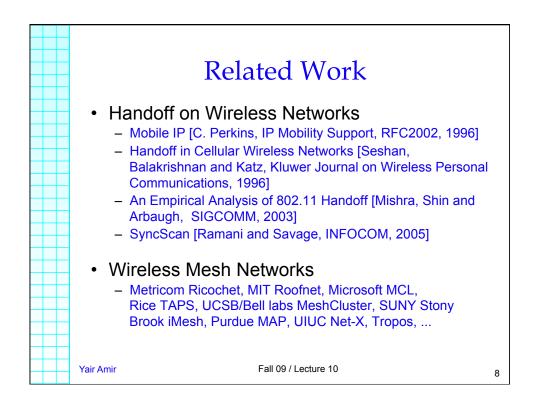
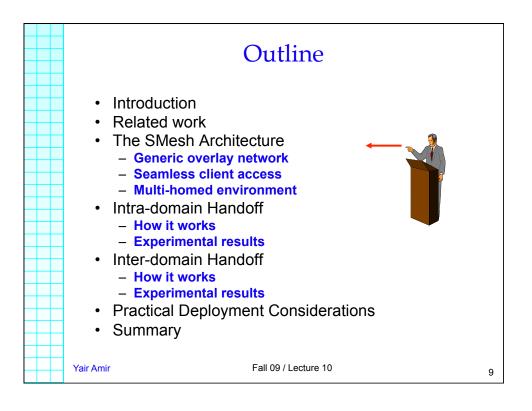
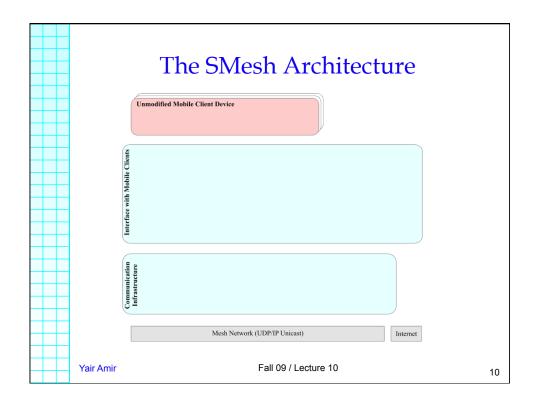


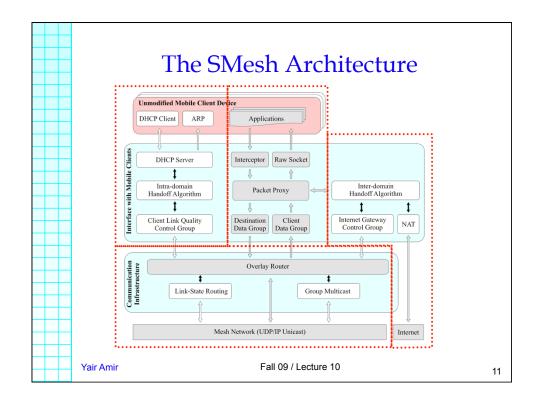
Challenges	
<ul> <li>Not changing the client         <ul> <li>No special software or hardware</li> <li>The client should feel as if there is one omni-present access point</li> </ul> </li> </ul>	
<ul> <li>Fast, lossless handoff         <ul> <li>Handoff between access points fast enough for VoIP and video</li> <li>The responsibility of the mesh and not the client</li> </ul> </li> </ul>	
<ul> <li>Multi-homed mesh environment         <ul> <li>Multiple Internet gateways</li> <li>Potentially on different networks</li> <li>How to utilize to our advantage</li> <li>Handoff between Internet gateways</li> </ul> </li> </ul>	
How to keep connectivity alive on different networks Yair Amir Fall 09 / Lecture 10	6

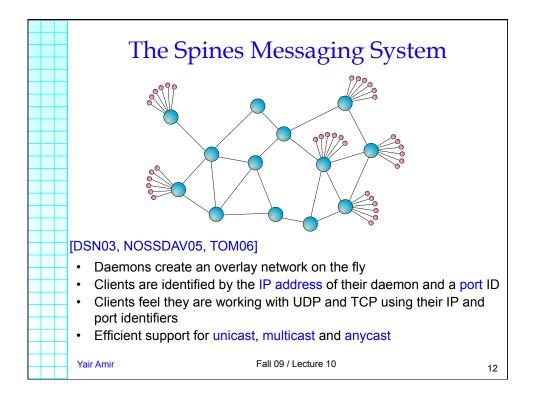


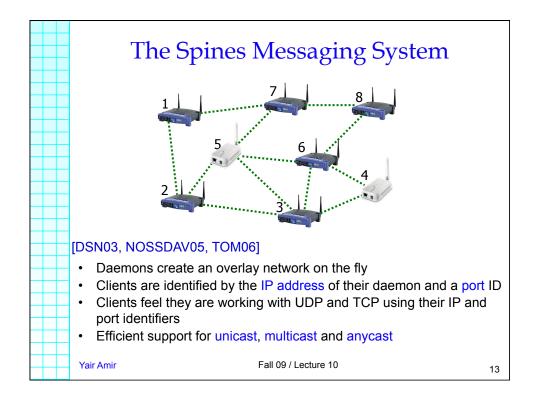


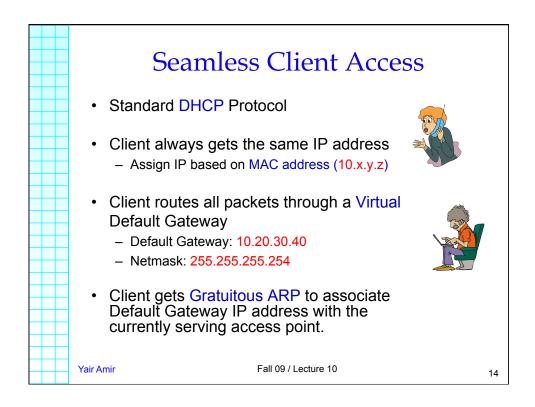


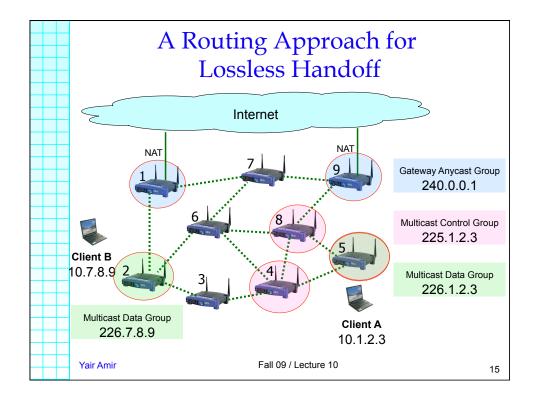


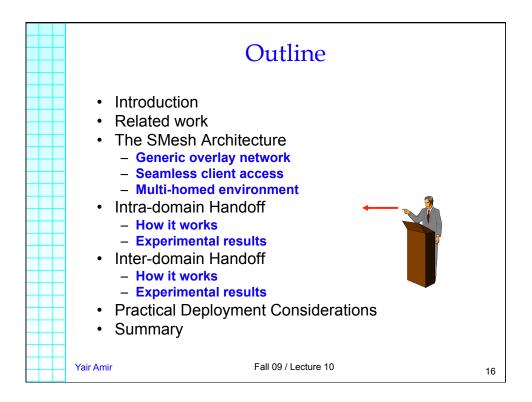


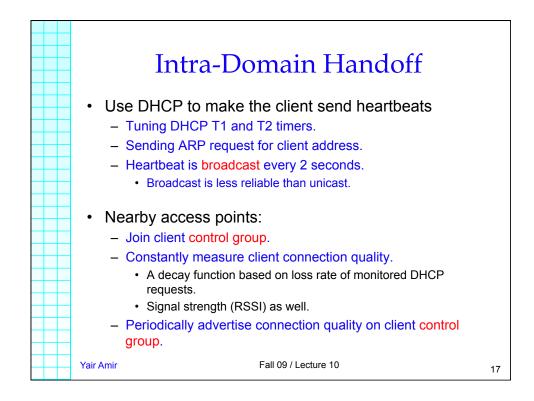


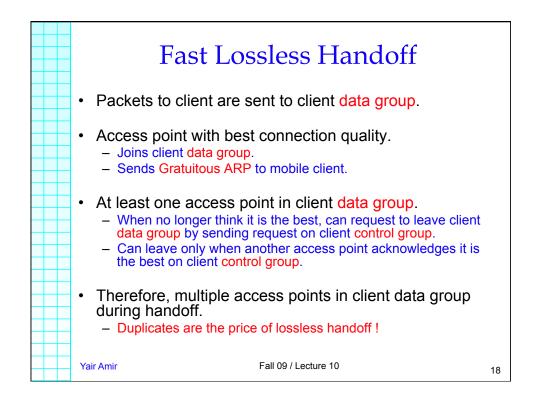


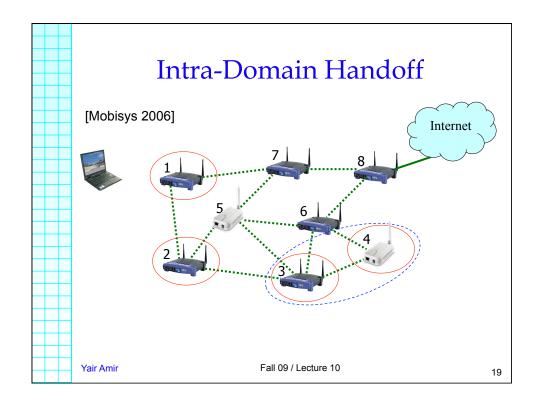


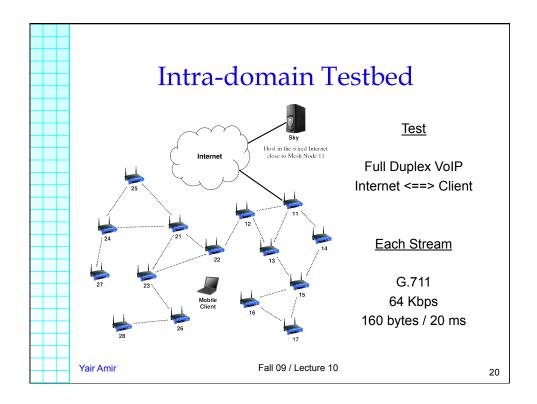


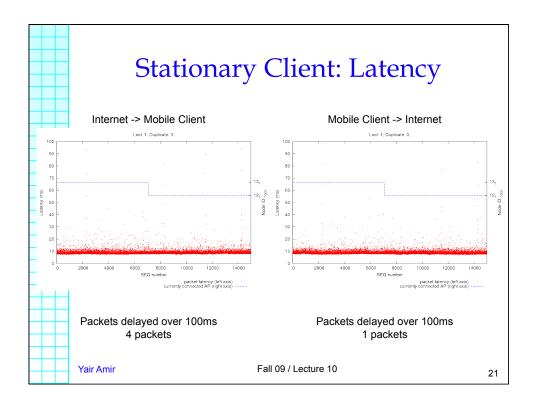


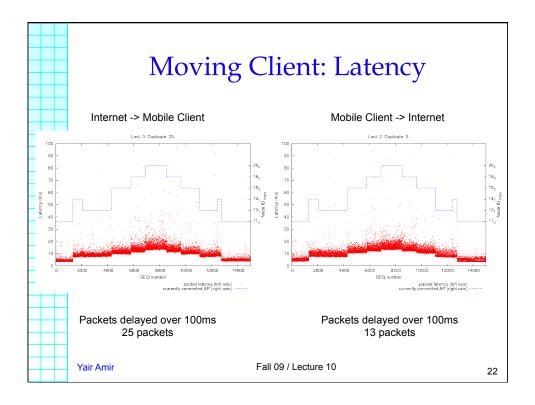


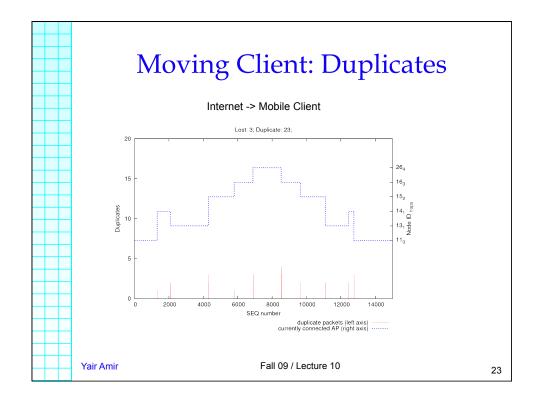


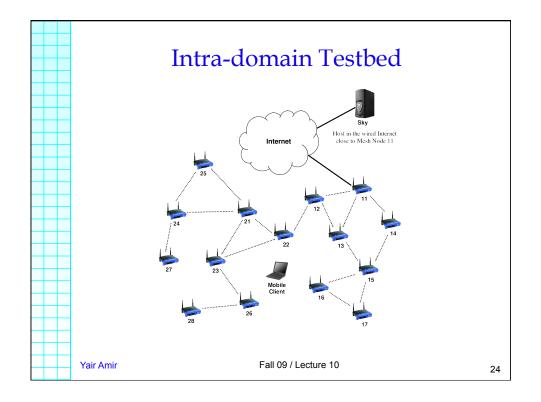


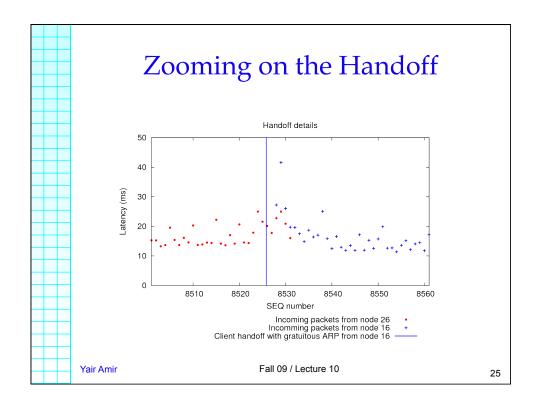


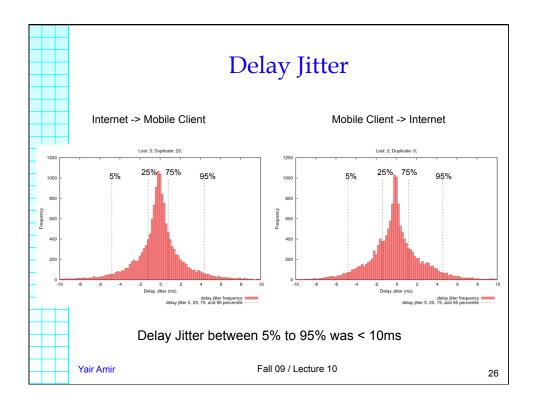


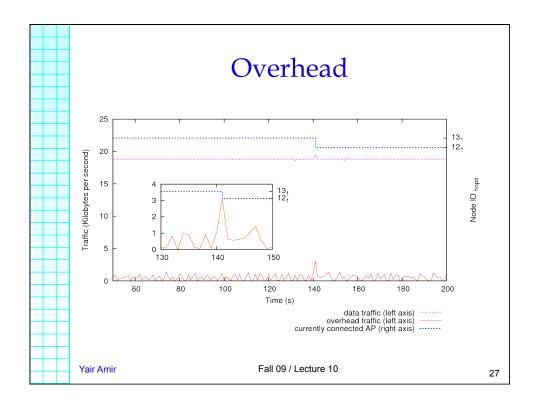


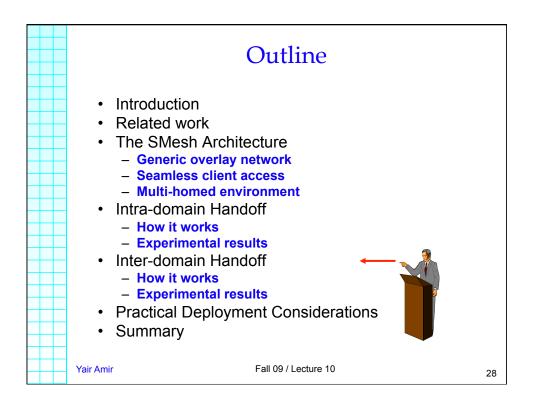


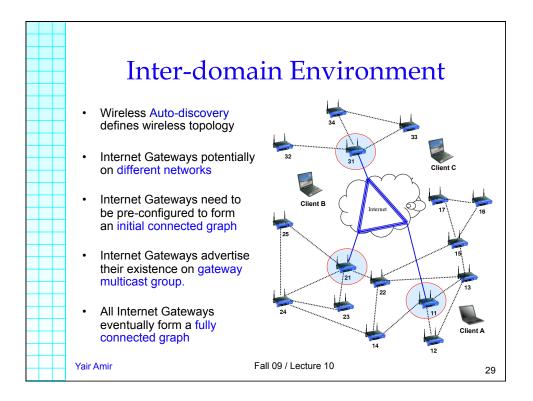


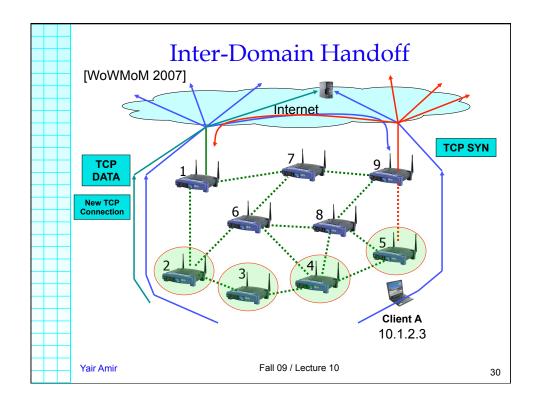


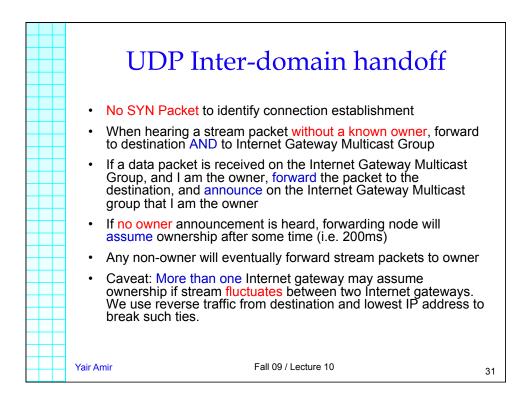


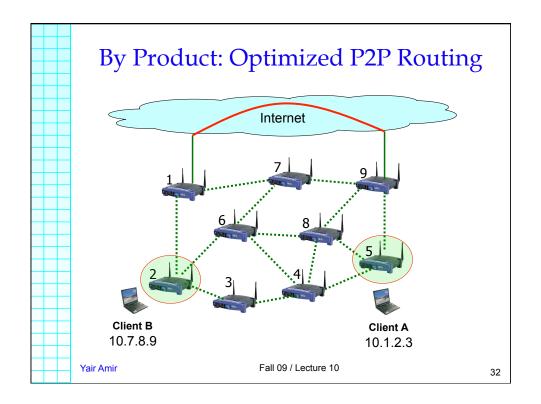


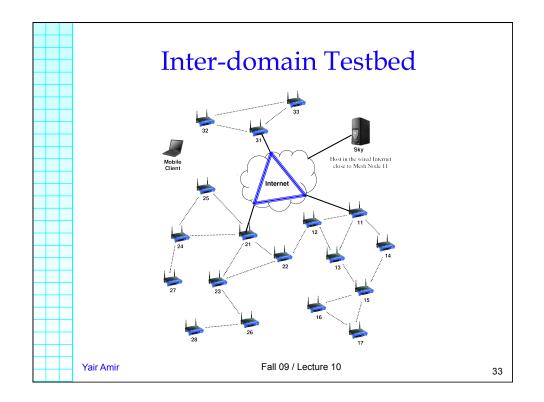


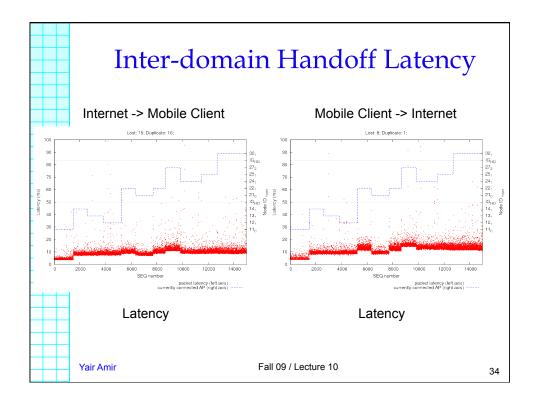


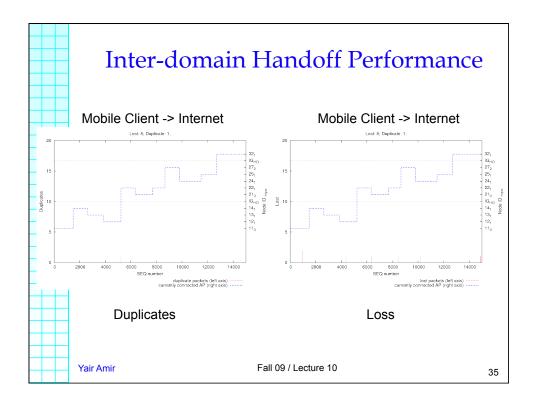


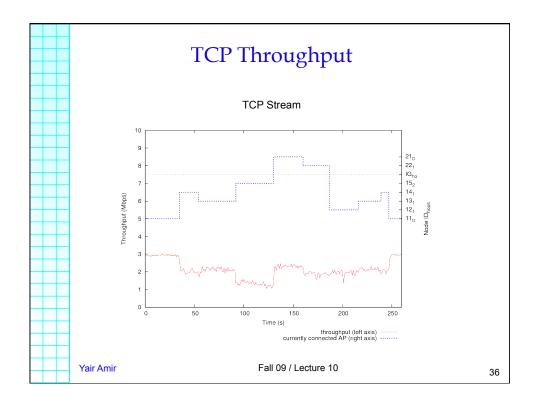


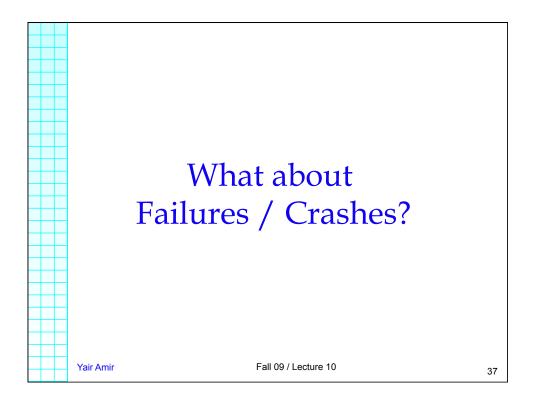


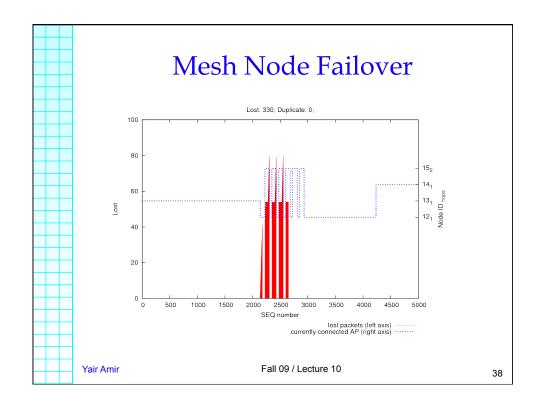


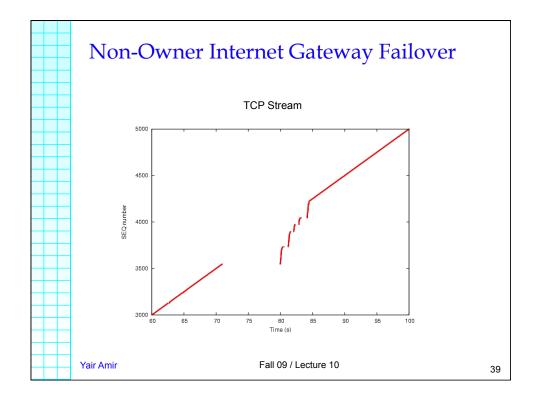


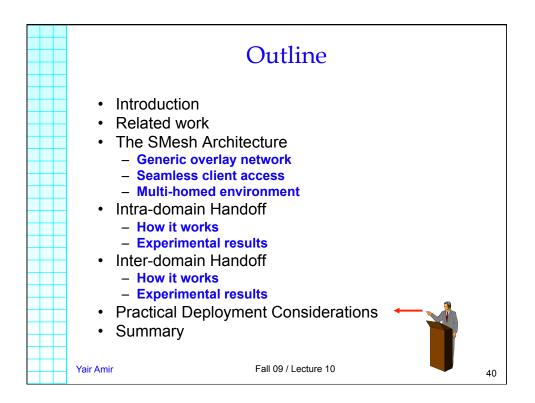


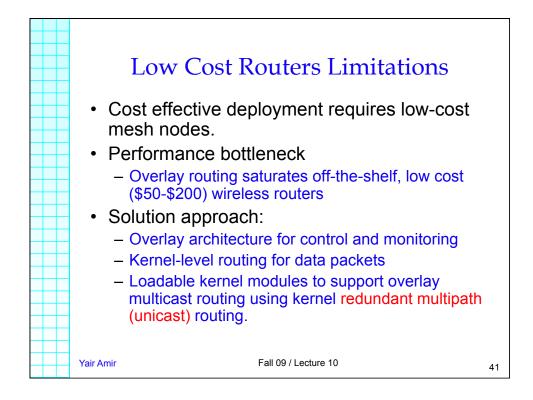


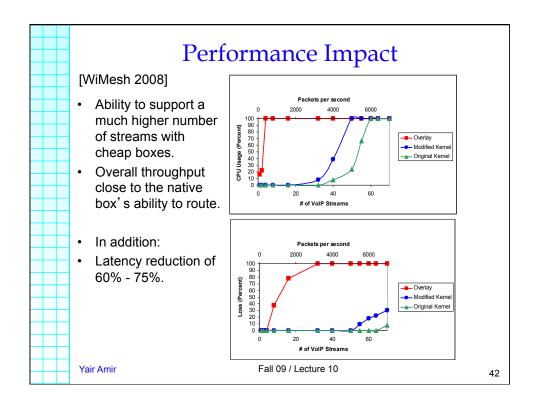


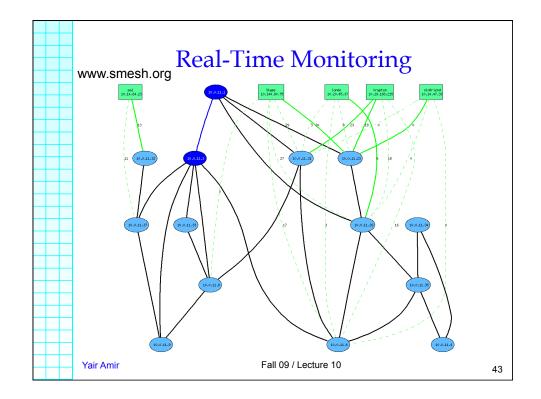












Summary	
<ul> <li>Smesh as a wireless mesh network www.smesh.org <ul> <li>The first seamless 802.11 mesh with fast handoff</li> <li>Inter-domain handoff for multi-home support</li> <li>Optimized hybrid, wired-wireless routing</li> </ul> </li> <li>Mesh environments become increasingly complex <ul> <li>A few access points with a single Internet connection</li> <li>Inter-domain environments with a few networks and tens of access points</li> <li>Neighborhoods to metropolitan areas ?</li> </ul> </li> <li>Can it be a reality, and if so, reality for what ?</li> </ul>	
<ul> <li>Encouraging signs: first responders, relatively small scale rapid deployments</li> <li>Beyond that?</li> <li>Yair Amir Fall 09 / Lecture 10</li> </ul>	44

