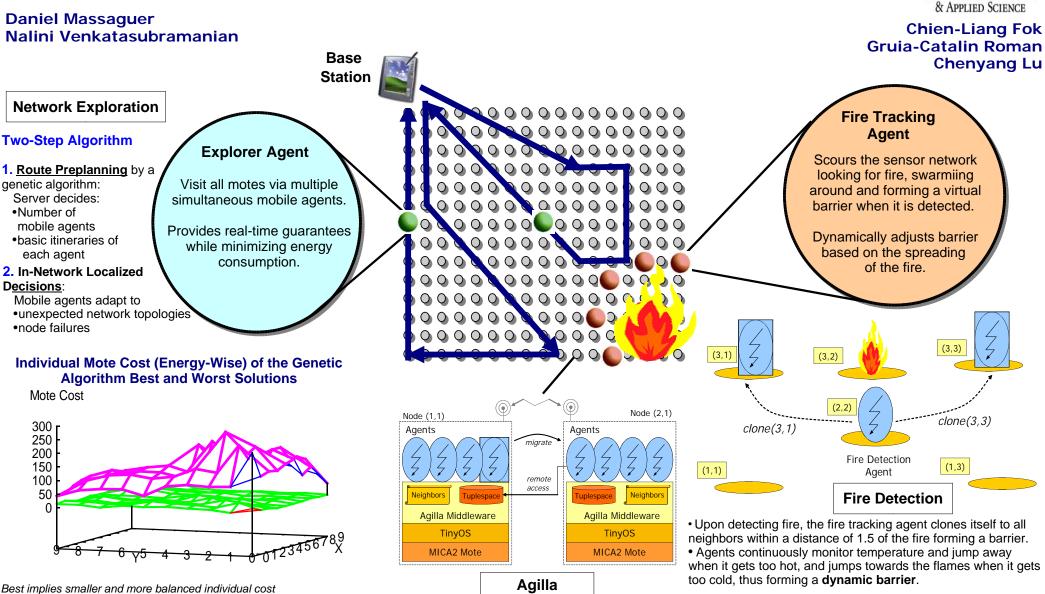


## Efficient Network Exploration and Fire Detection using Mobile Agents in a Wireless Sensor Network





## Wireless Sensor Networks

Ubiquitous and Large Resource-constraint Faulty

- Agents are written in a higher-level language; simplifies programming
- Agents can be dynamically injected into an existing network
- Agents can move or clone onto any node addressed by location
- Inter-agent coordination and context discovery done through tuplespaces

Mobile Agents
Flexibility
Robustness
Load Distribution

This research has been supported by the US Office of Naval Research under MURI research contract N00014-02-1-0715 and by the Generalitat de Catalunya, the Patronat of Escola Politecnica Superior at the Universitat de Girona and the Balsells Program at UCI through a Girona fellowship.