Advanced Firebrigades

( > Sample Agents )
Fire clusters

• Usually good idea to consider clusters of fire instead of single houses
• Assign coalitions to clusters
• Determine sets of near houses
  – > Union-Find structures
Coalition assignment

- Continuous (i.e. not only once)
- Max. one coalition per cluster
- Determine for each cluster value of being extinguished by N agents
- Iterate over all homogeneous coalition structures
  - Evaluate by choosing best assignment to clusters
  - Take max
  - Document what evaluation is based on!
Agents

• Agents need to be pro-active: Choose next best action, if best action not available
• Leader: Selection of good houses
  – Thread to map/spreading
    • Frontier/border
    • Towards center
  – Fast to Extinguish
    • Fieryness
    • Area
  – Document!
• Performance: Working agents! Better than sample agents.