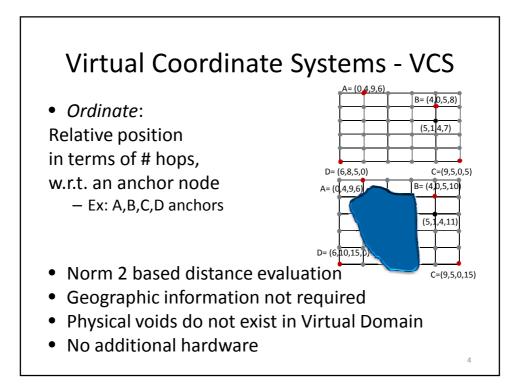
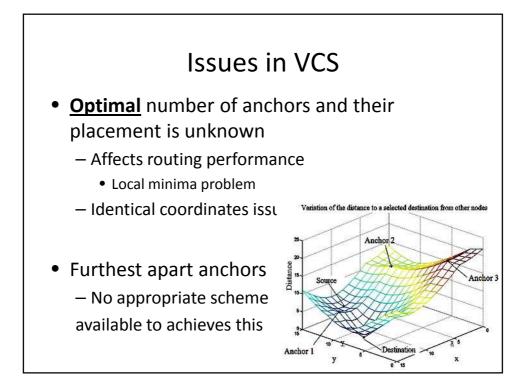
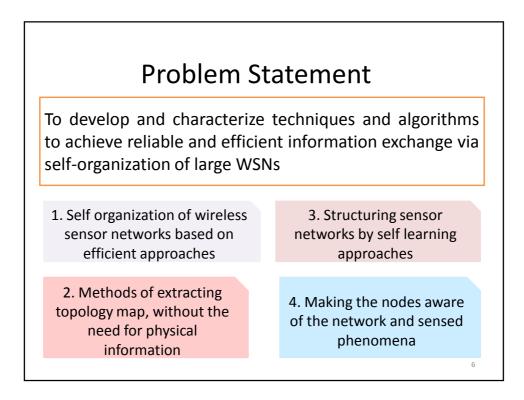


Background

- Initially unstructured networks
- Why structuring/organization required for WSNs?
 - For some applications organization is required
 - Efficient/improved data dissemination
- Self organization schemes-
 - Localization- GPS/RSSI
 - Requires additional hardware
 - Accuracy issues
 - Clustering
 - Virtual Coordinate Systems







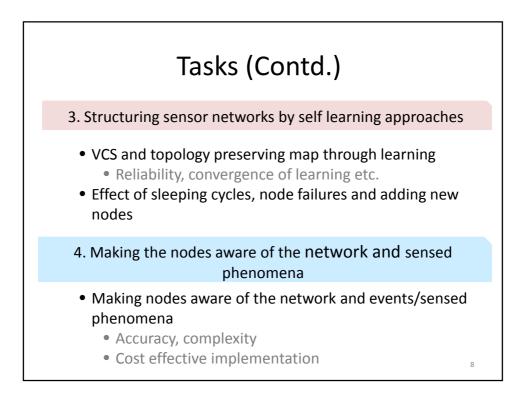


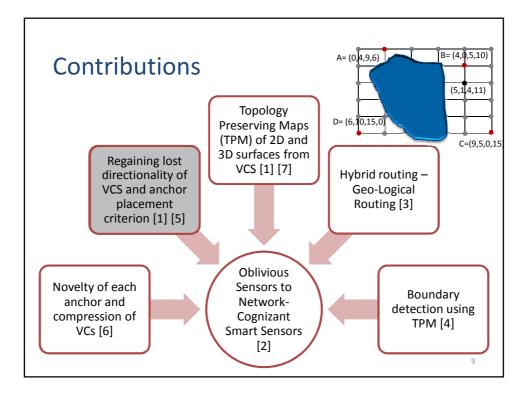
1. Self organization of wireless sensor networks based on efficient approaches

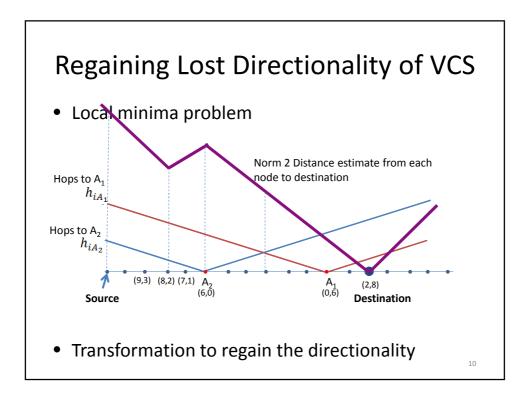
- Regaining lost directionality of VCS
- Directional VC based routing and anchor placement
- Efficient representations of VCS

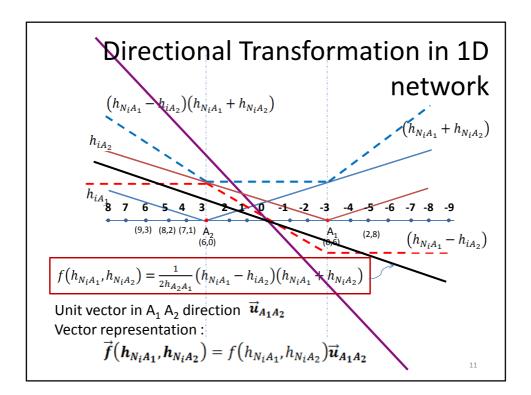
2. Methods of extracting topology map, without the need for physical information

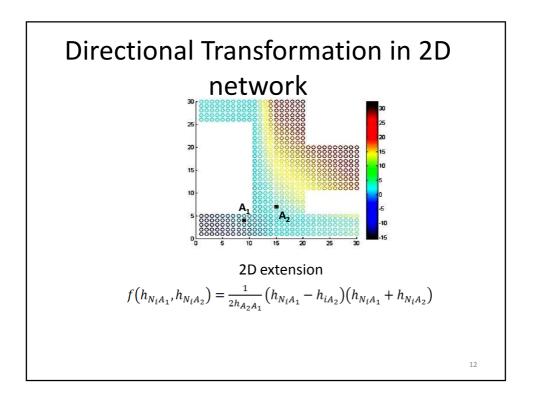
- Techniques for generating topology maps
- Topology preserving map based routing
- Boundary detection without localization

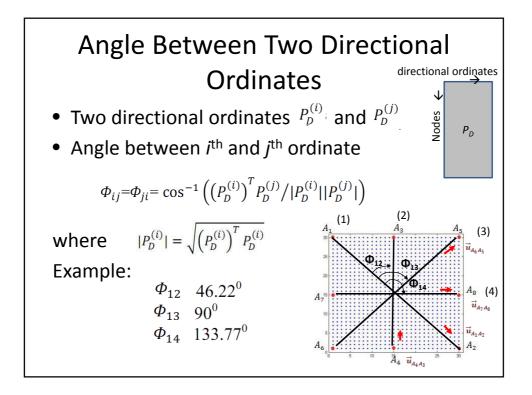


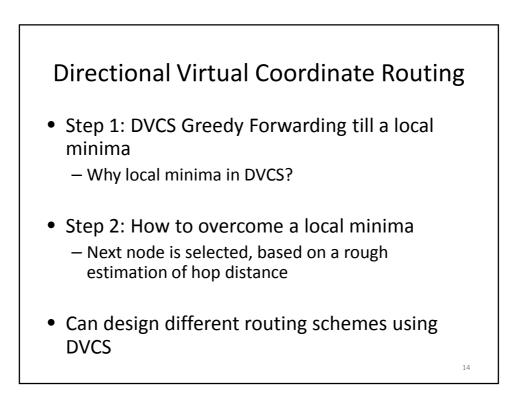


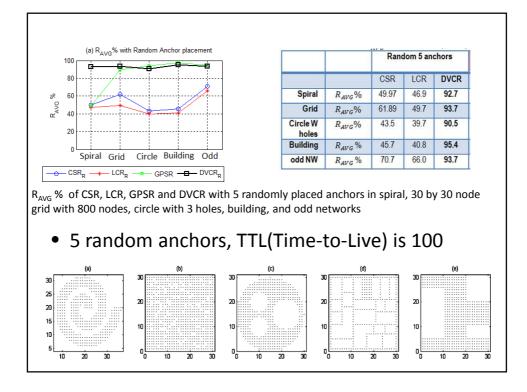


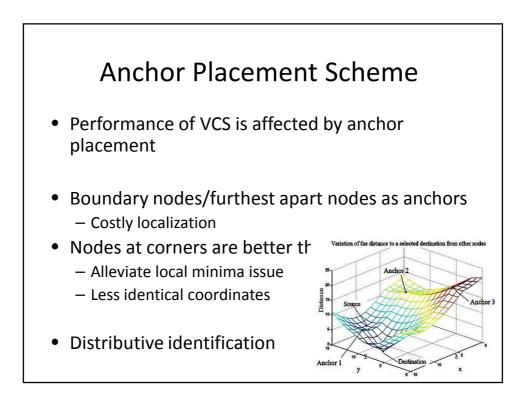




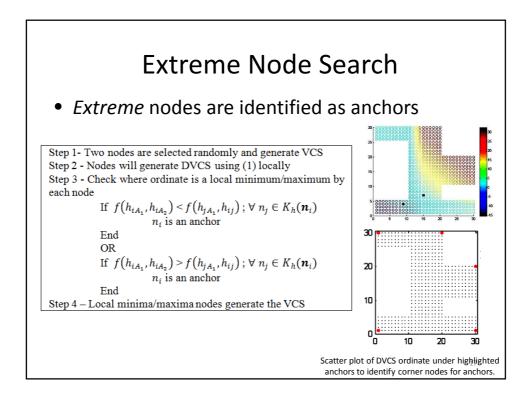


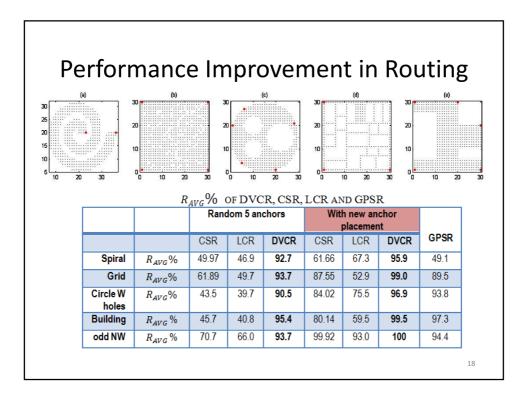




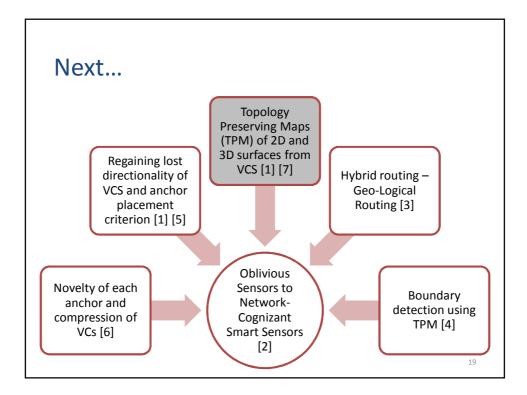


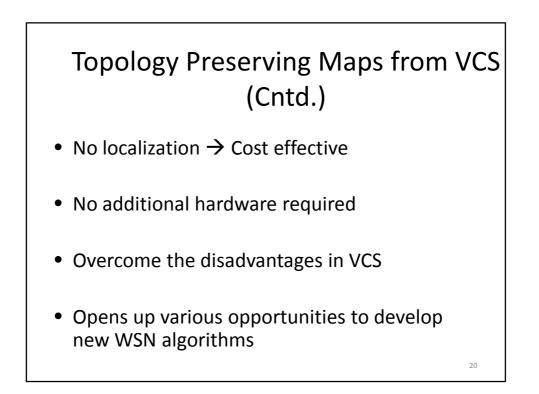
8

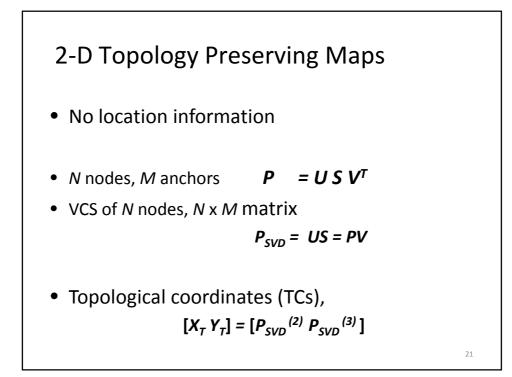


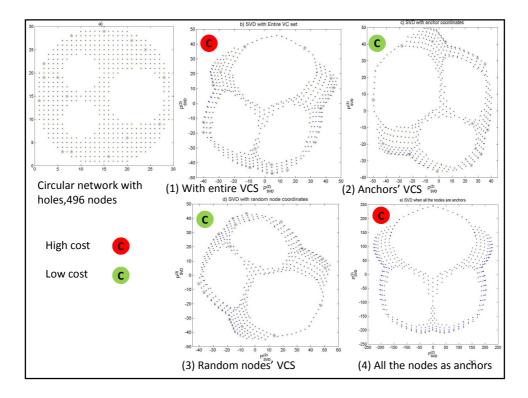


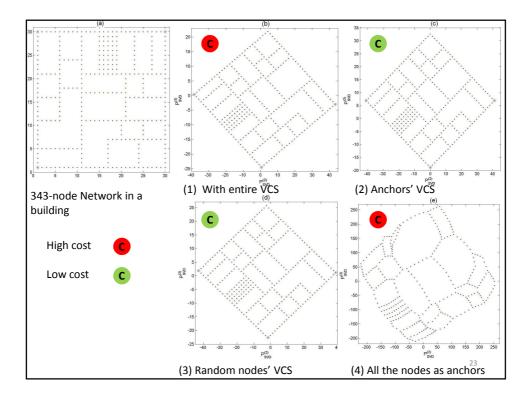
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Performance Evaluation (Cntd.) Topology Preservation Error = $\frac{\# \text{ out of order pairs}}{\text{Total }\# \text{ possible pairs node network}}$				
Network				
With entire VCS	0.90%	1.68%	0.36%	0%
15-Anchors' VCS	0.83%	1.59%	1.07%	0%
10-Random nodes' VCS	0.21%	1.50%	0.49%	0% 24

