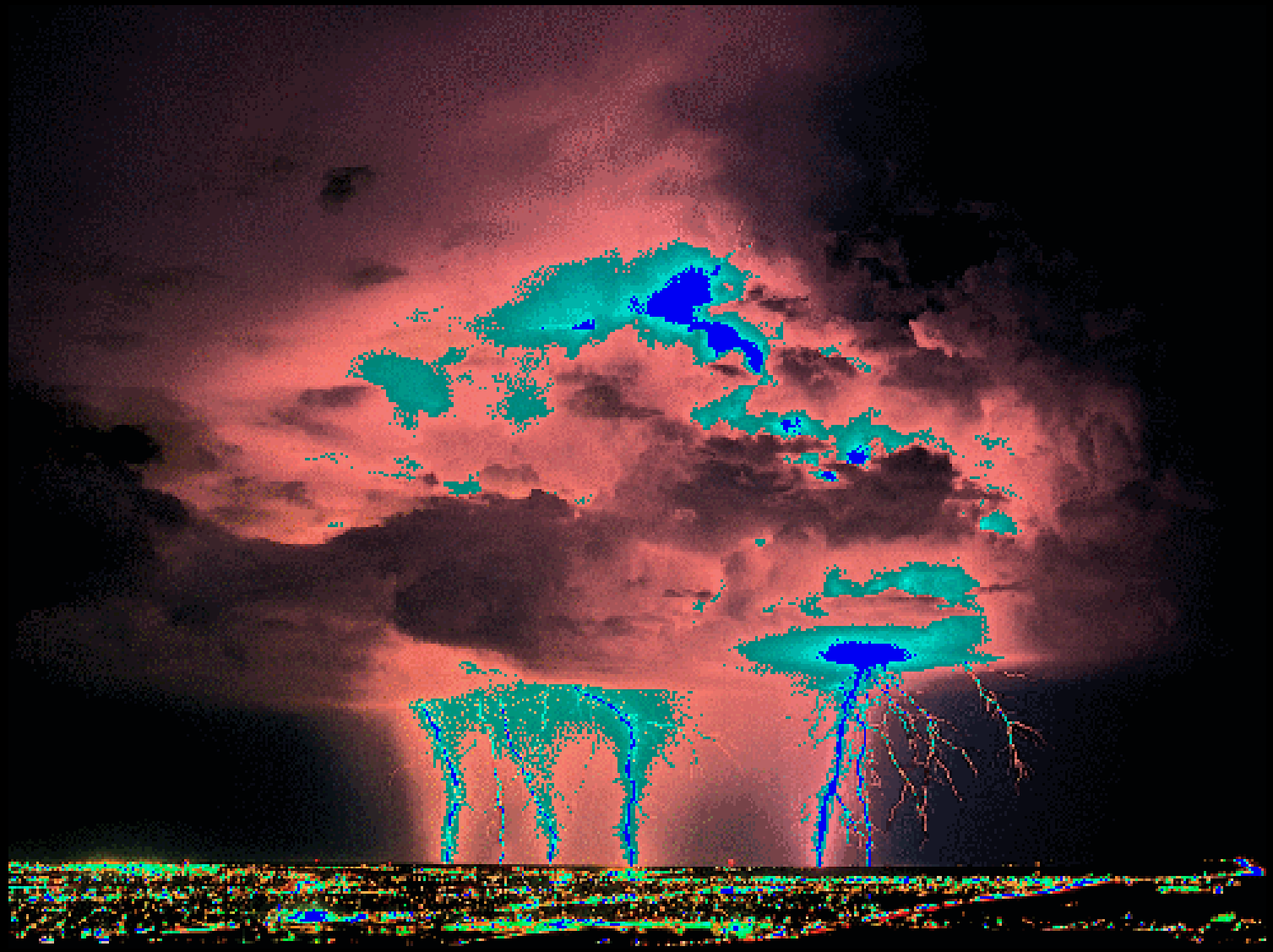
The Broadcast Storm Problem in MANETs

T-Storm in St. Louis



“Touchdown” of a Tornado

Can Human Create Storms?

The Storms in the Internet

Call for Papers

Broadcast Problem

Broadcast by Flooding

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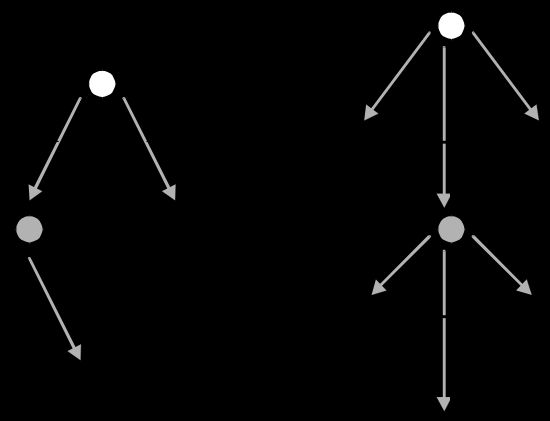
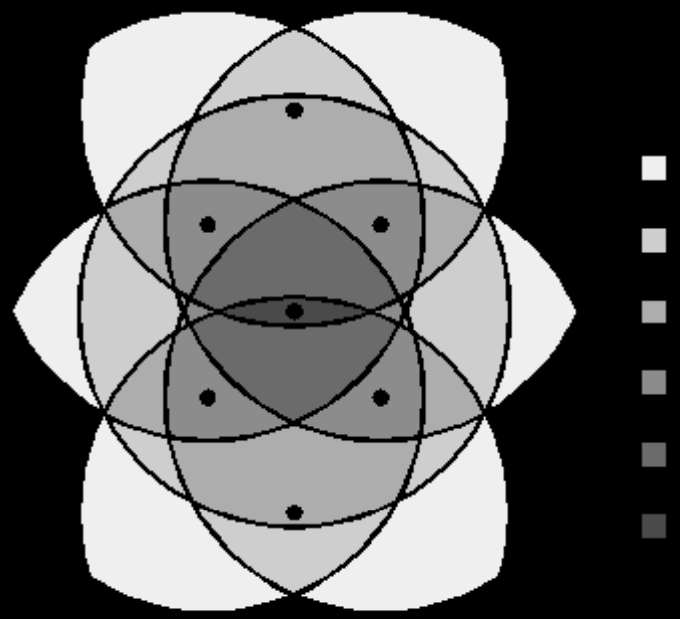
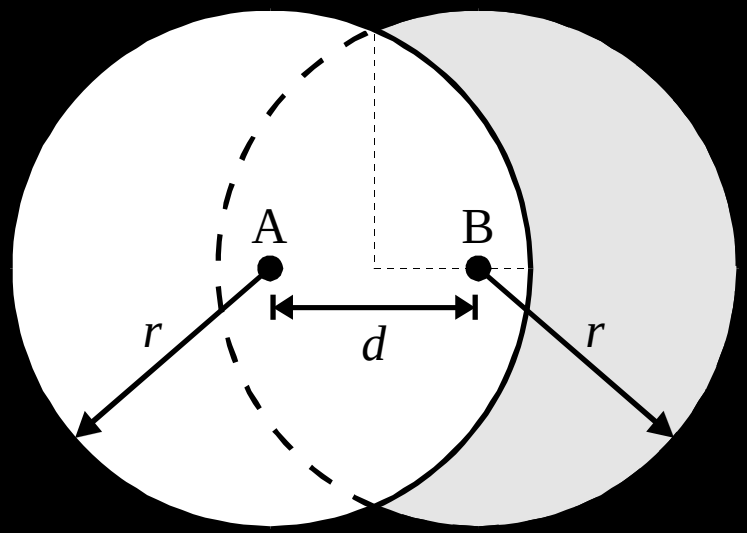
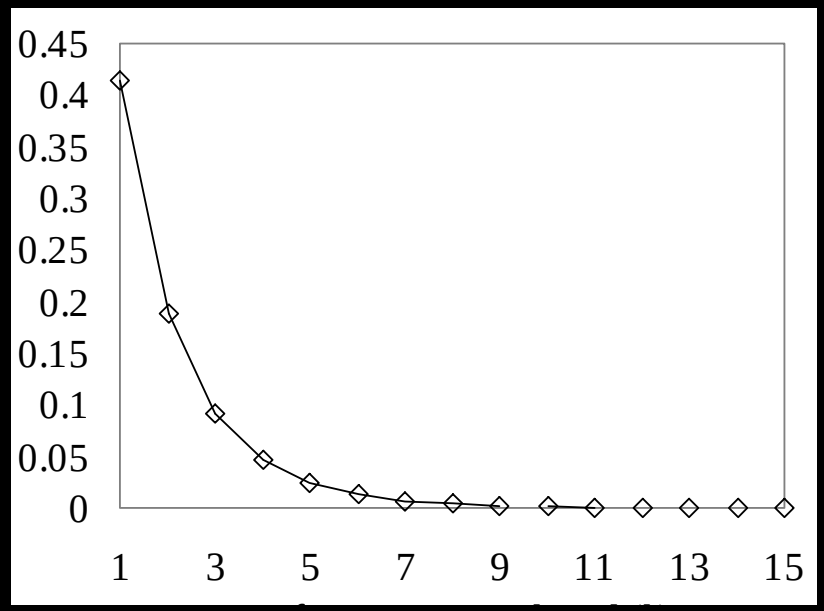
Serious Redundancy



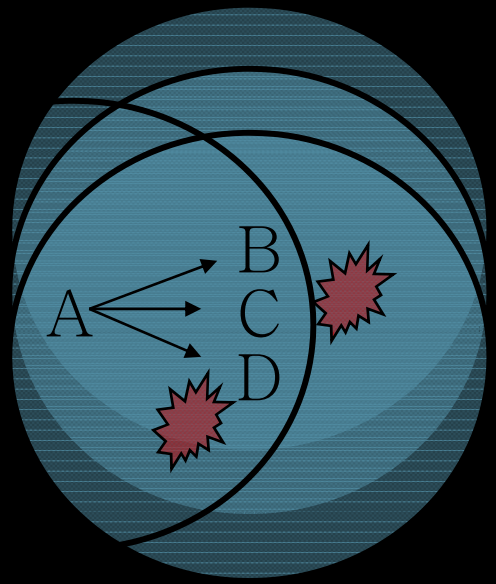


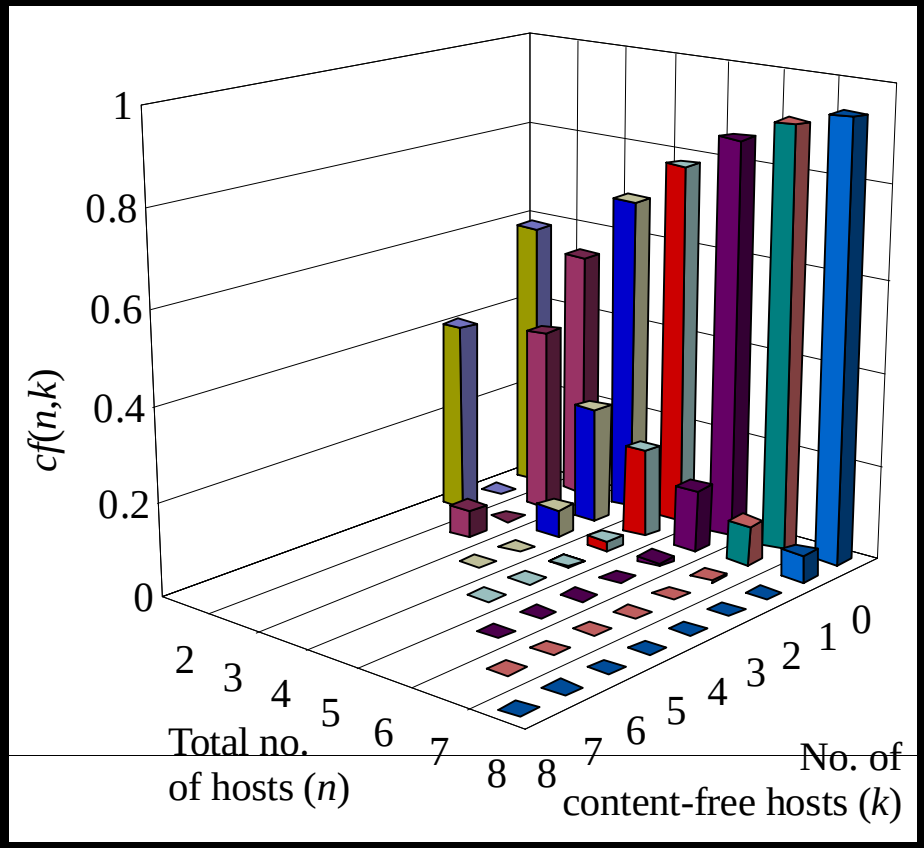
Analysis on Redundancy



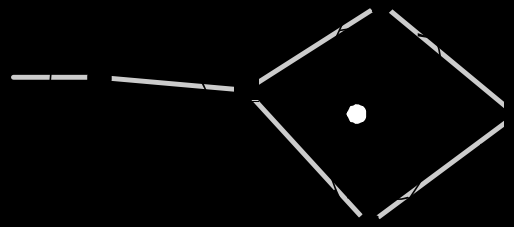


Analysis on Contention





Analysis on Collision



Broadcast Storm Problem Summary

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Possible Broadcast Solutions

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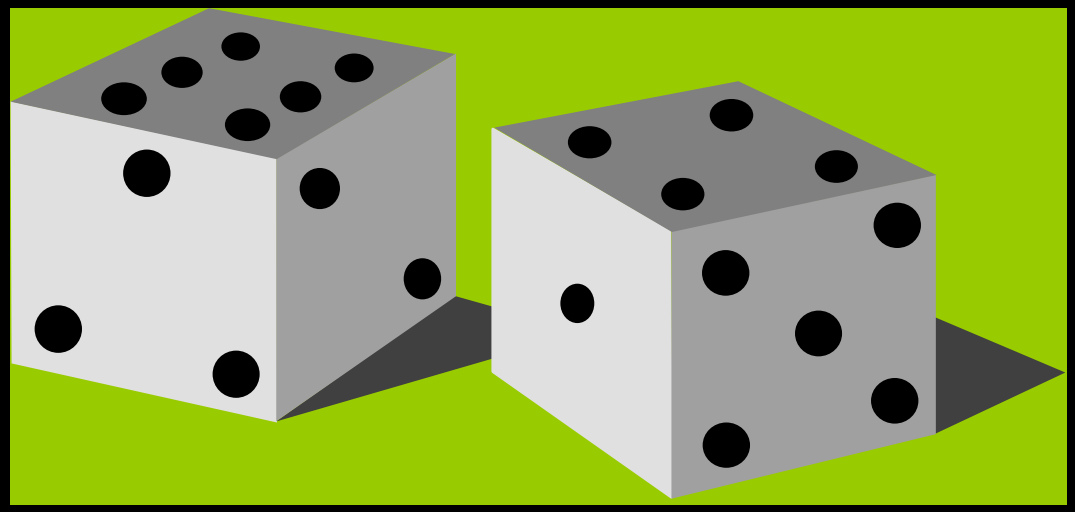
Probabilistic Scheme

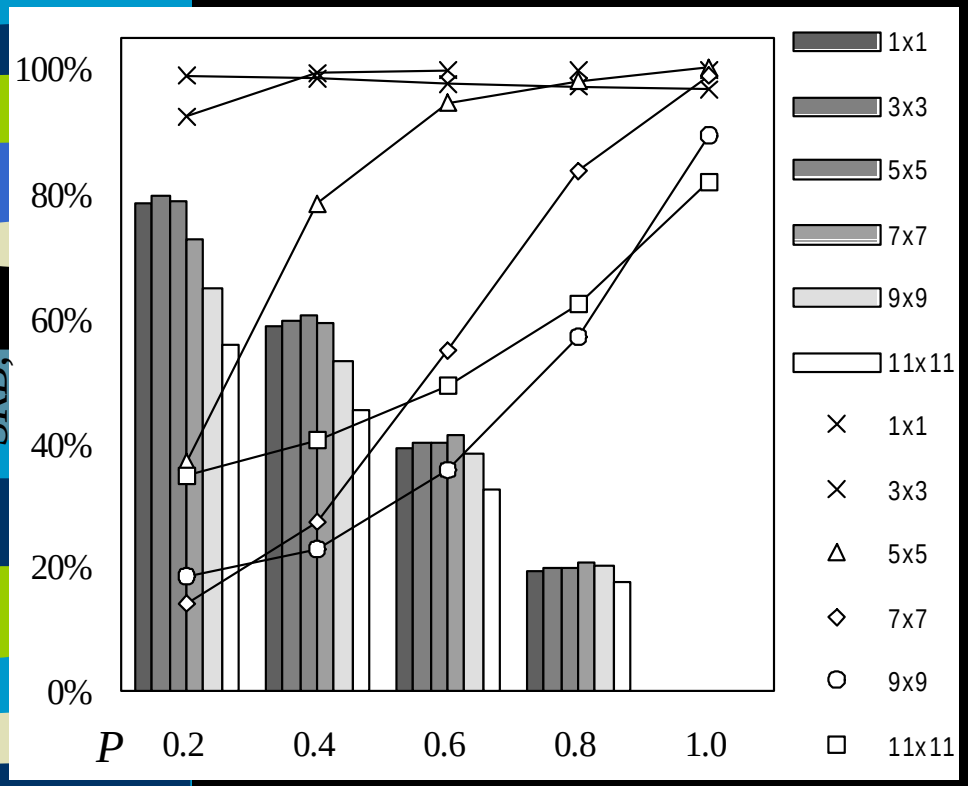


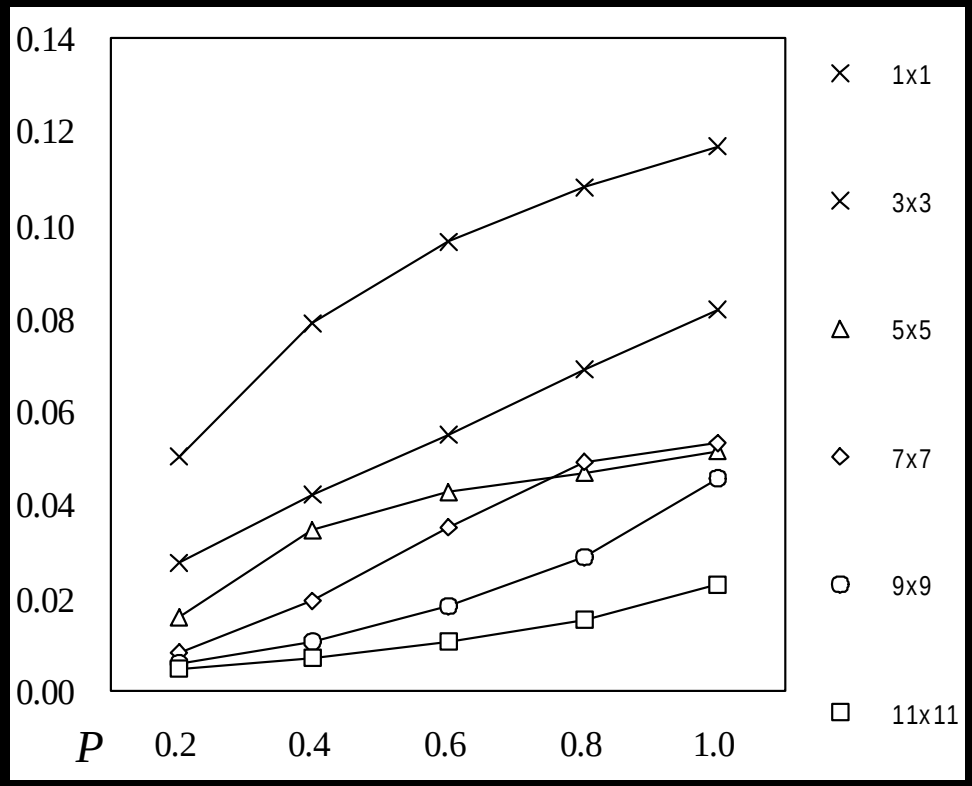
Simulation Parameters

Performance of Probabilistic Scheme

RE =

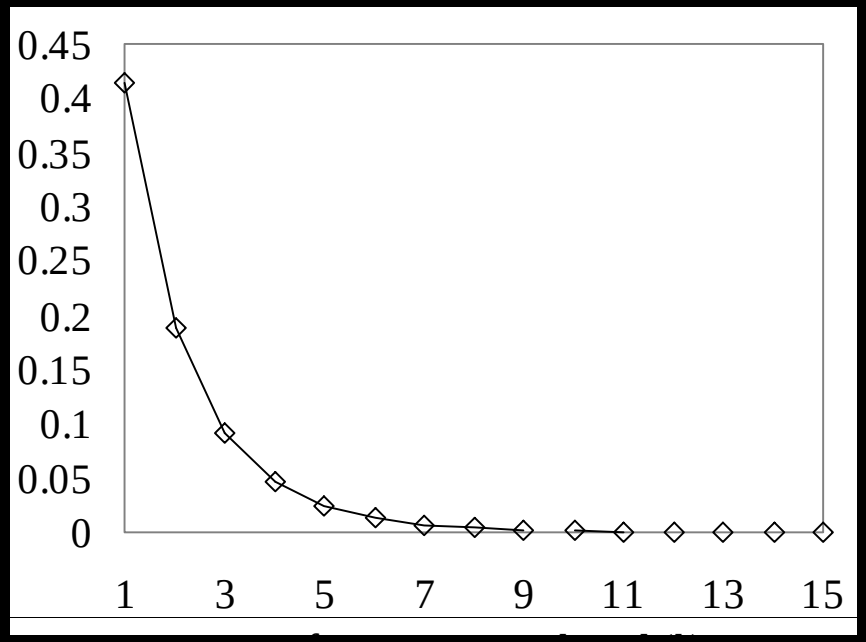
SRB



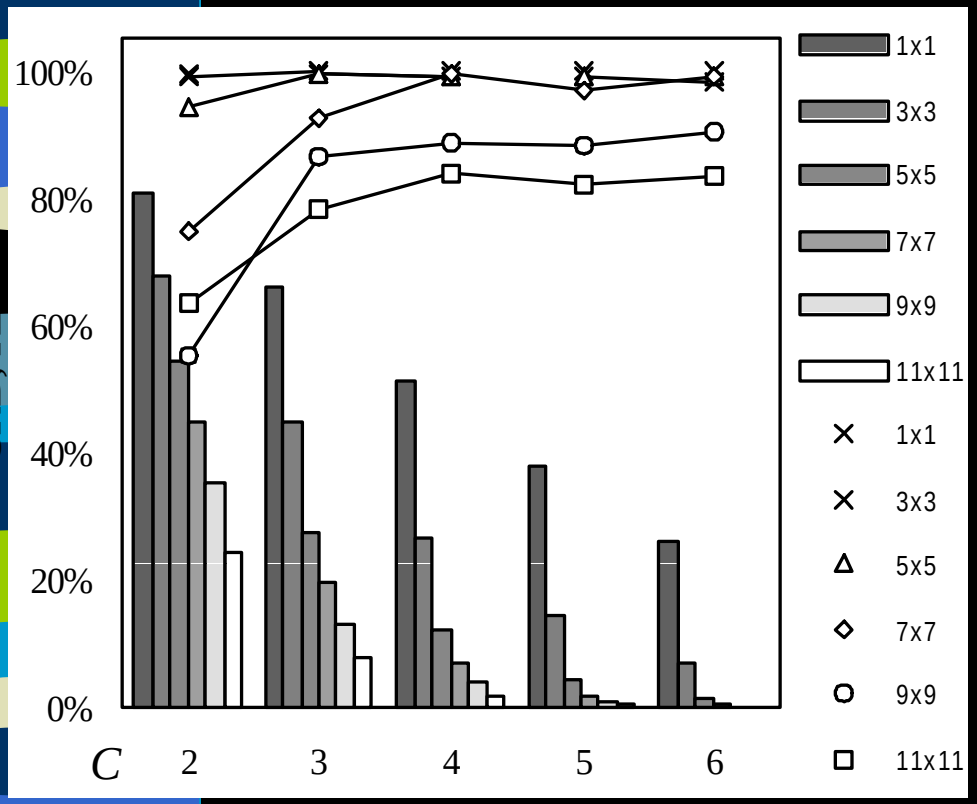


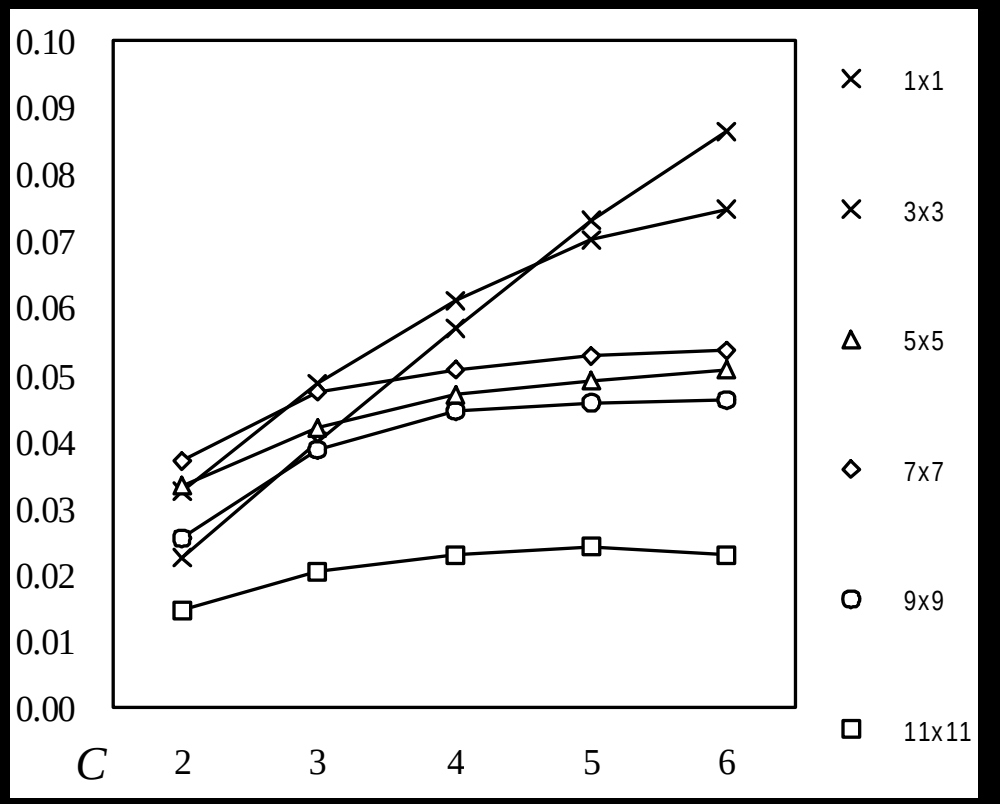
Observation

Counter-Based Scheme



Performance of Counter-Based Scheme





Observation

Distance-Based Scheme

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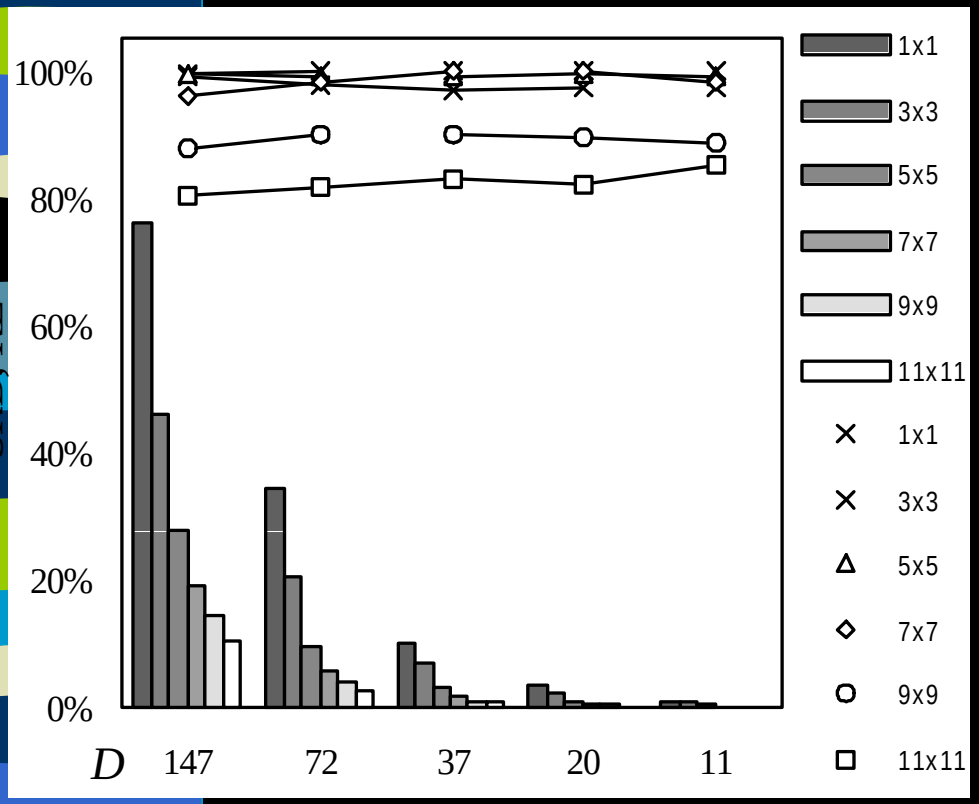
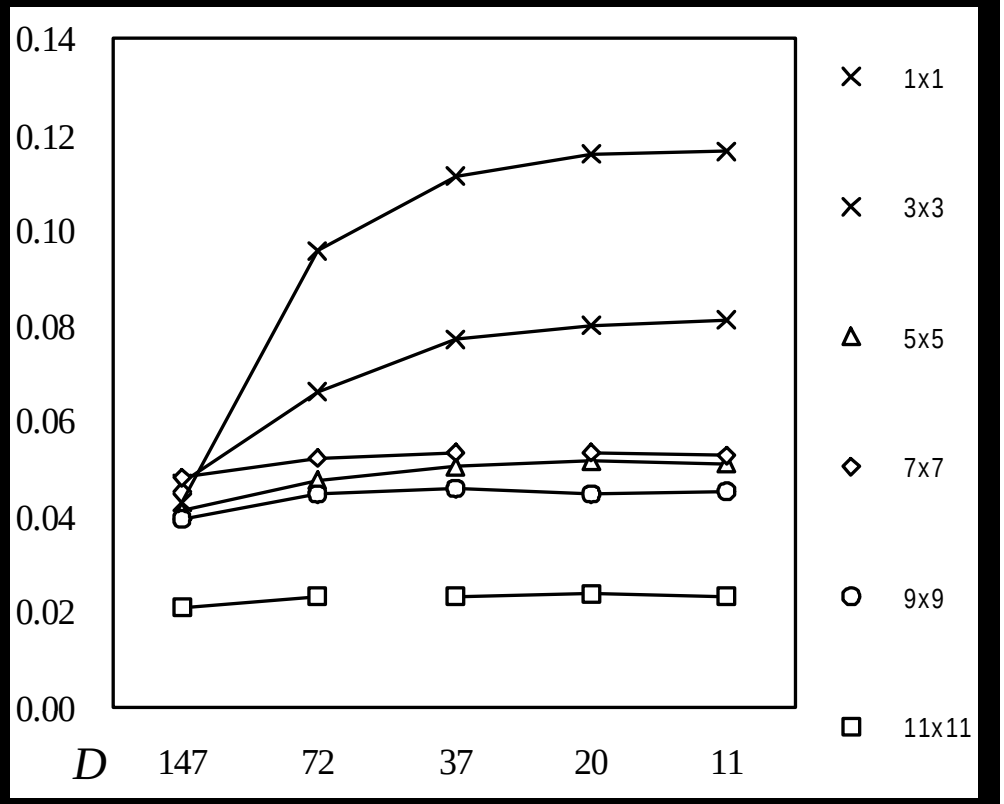
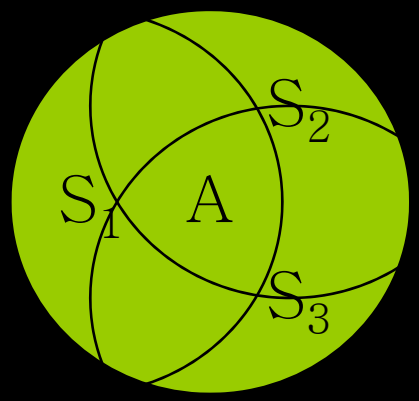
Performance of the Distance-Based Scheme

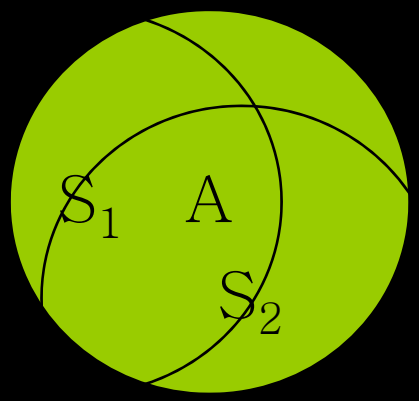




Observation

Location-Based Scheme





Difficulty

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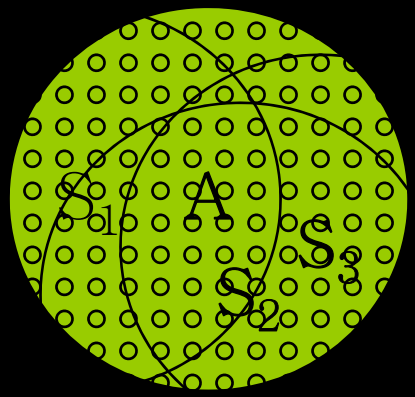
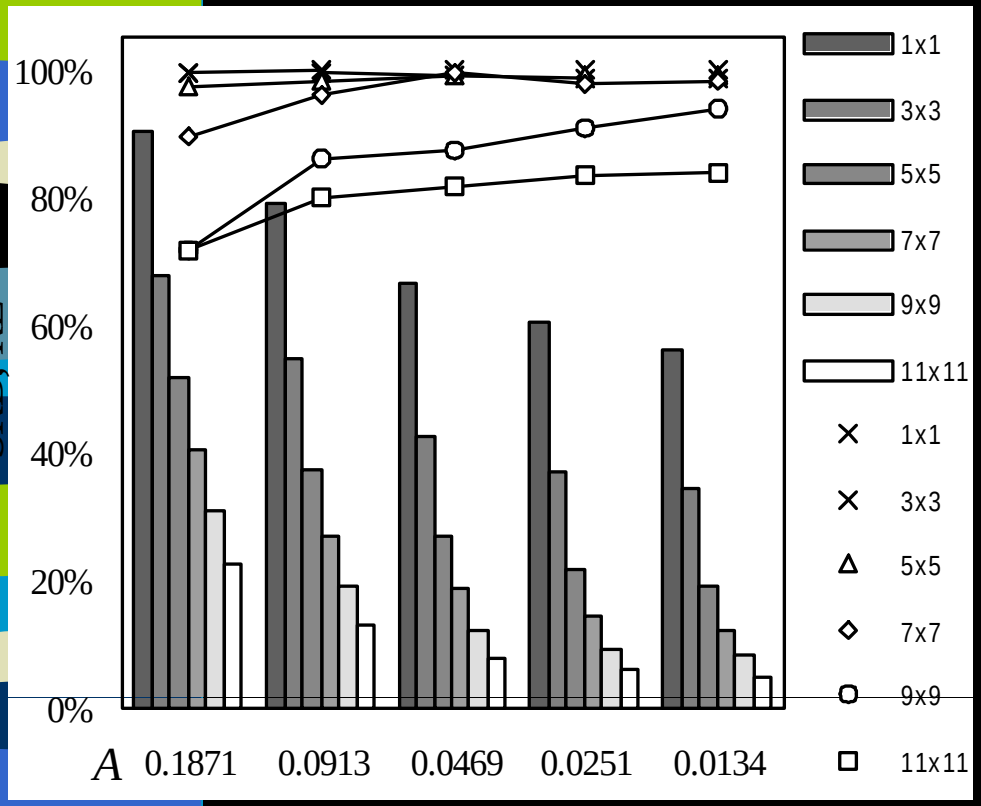
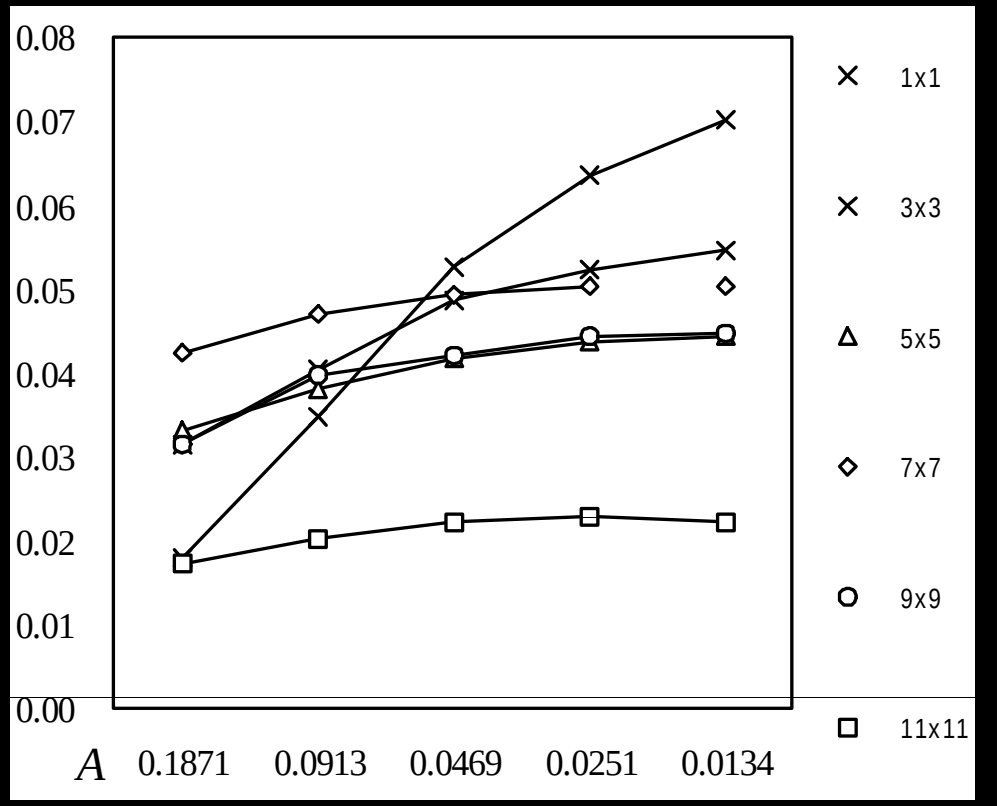


Performance of the Location-Based Scheme





Observation

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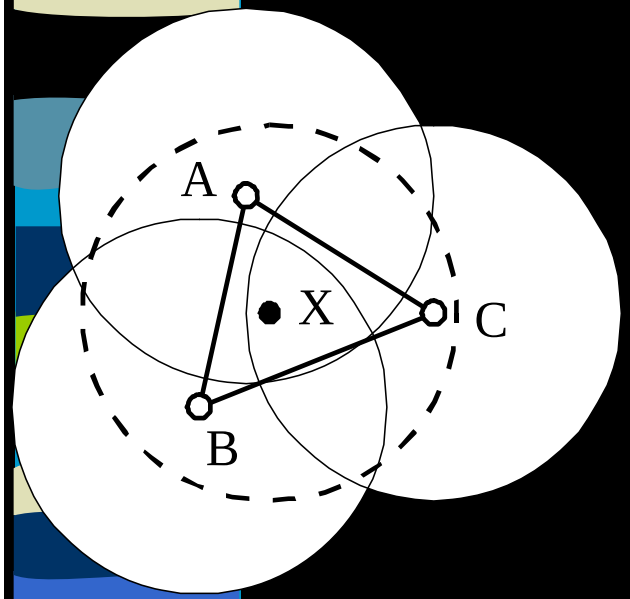
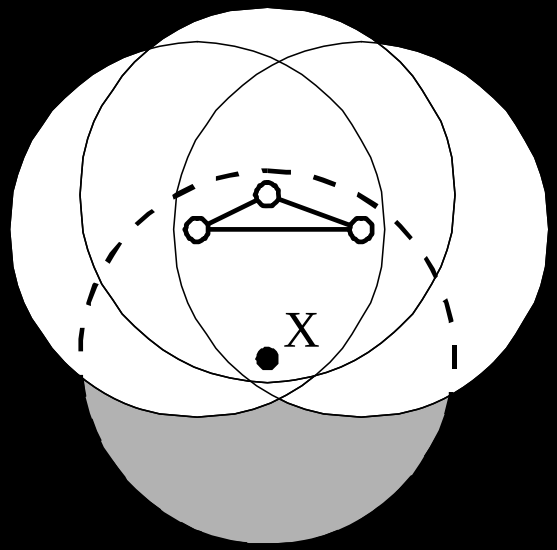
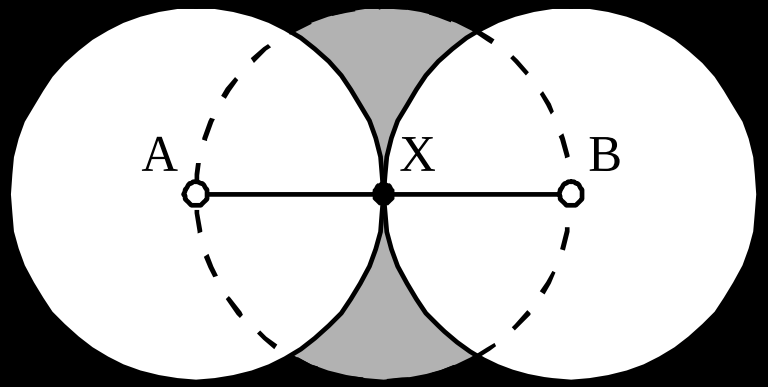
Modified Location-Based Schemes







A Short Summary

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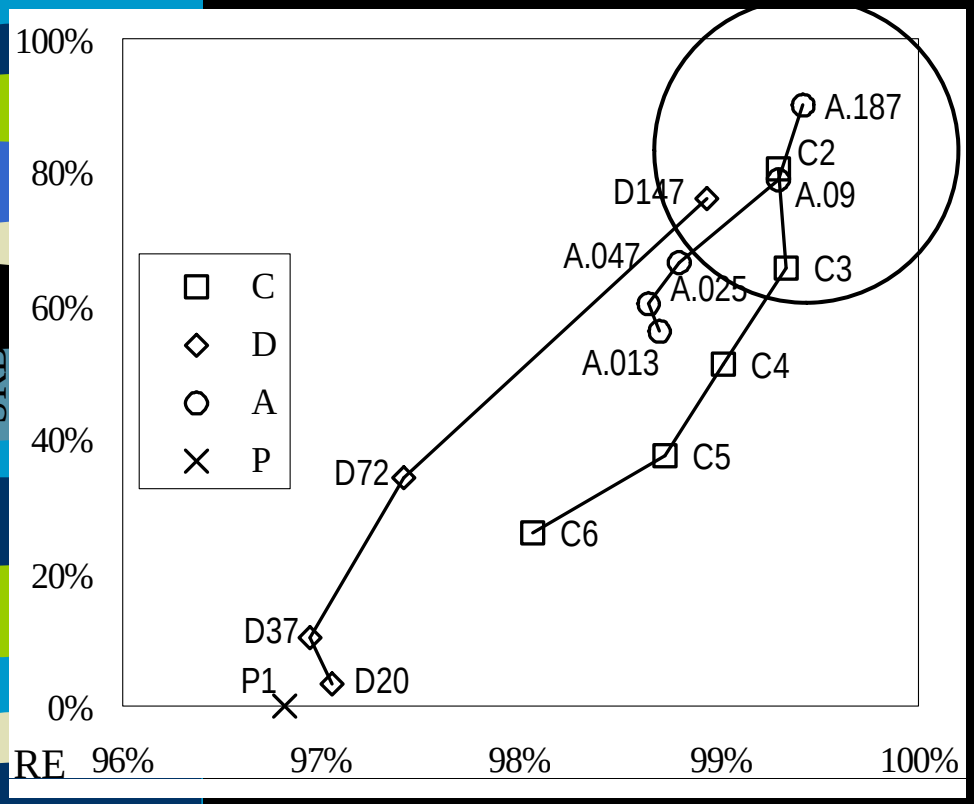
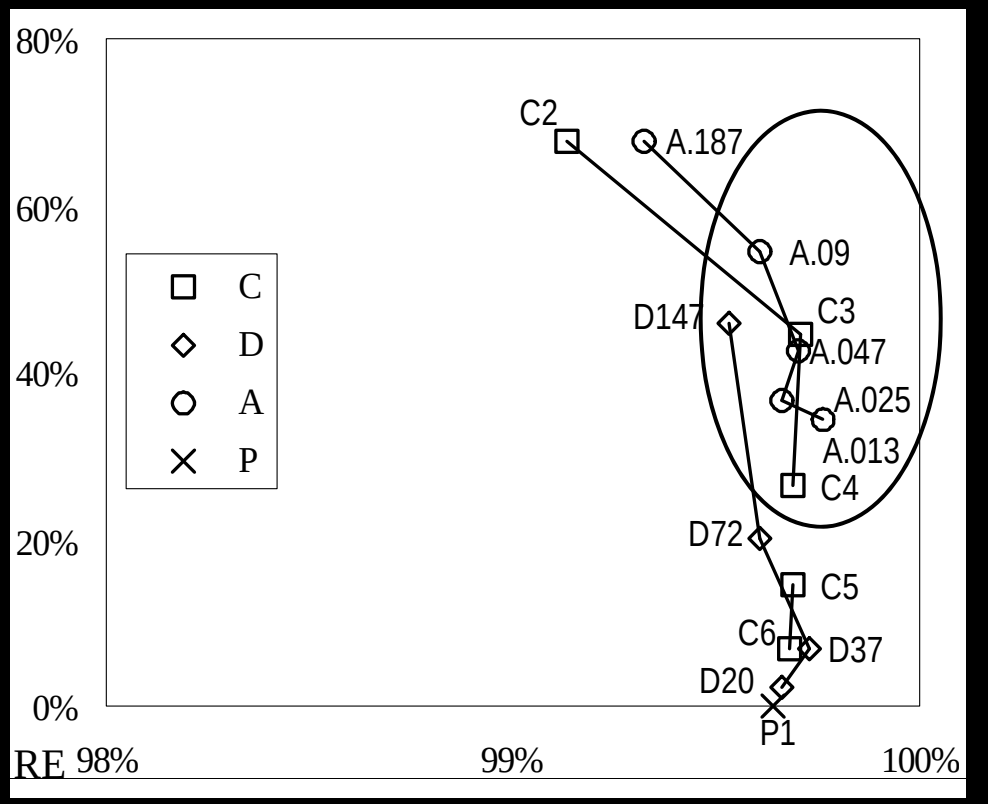
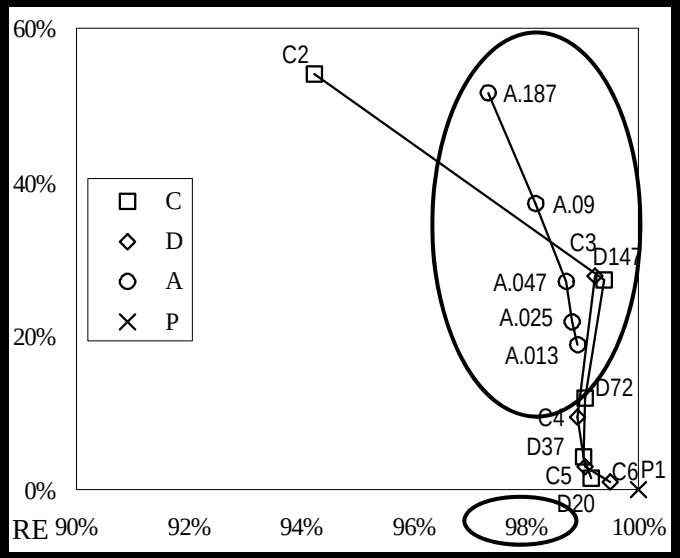
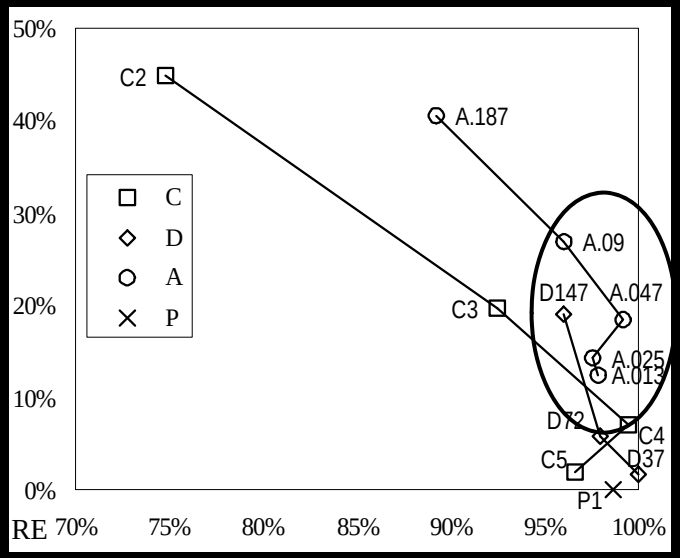
Relationship between Reachability and Saving

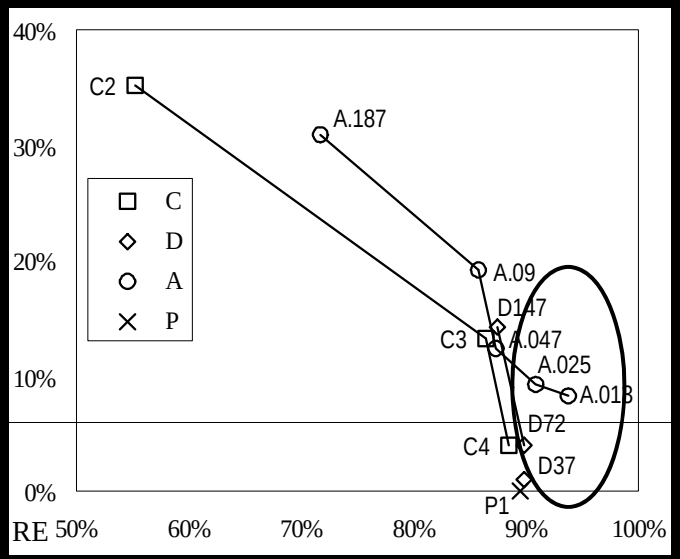


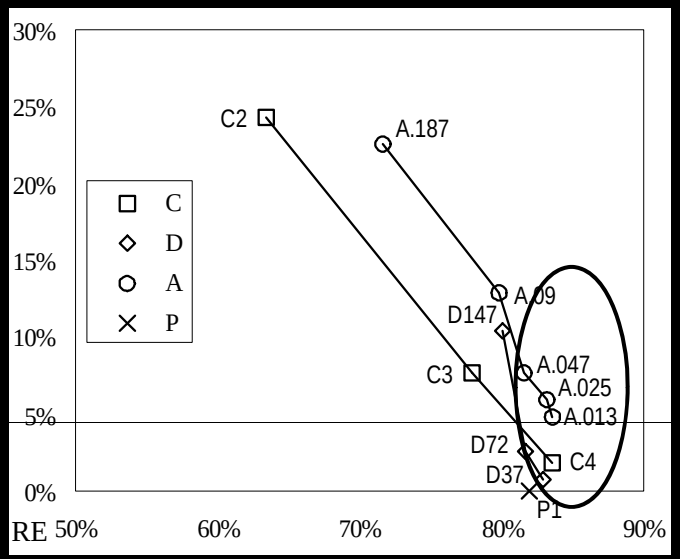


RE vs. SRB at Larger Maps









Conclusions

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Homework #4:

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