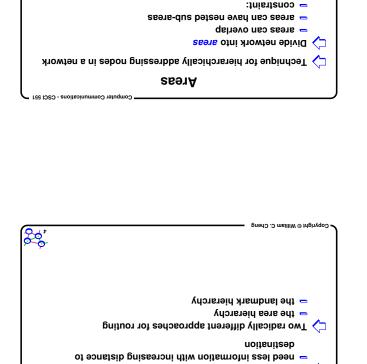


Computer Communications - CSCI 551 57 Hierarchies Mhat? = logical structure overlaid on collections of nodes = logical structure overlaid on collections, the only known = solution to scaling issues solution to scaling issues

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 there must exist at least one path between each pair of subareas in an area that does not exit the area
other areas can have one entry for entire area

8

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C Key observation

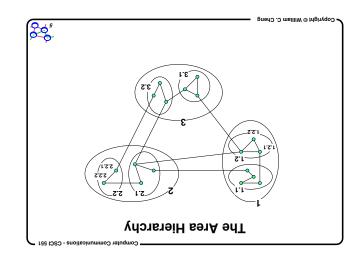
Flat routing doesn't scale

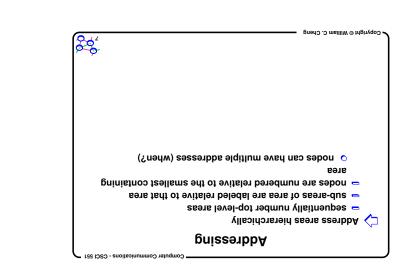
destination (or destination network)

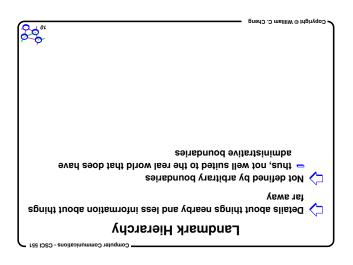
- each node cannot be expected to have routes to every

Routing Hierarchies

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can result in sub-optimal paths

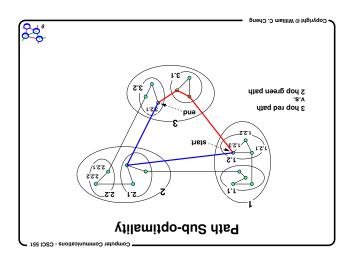
- inter-area packets are routed to nearest border router

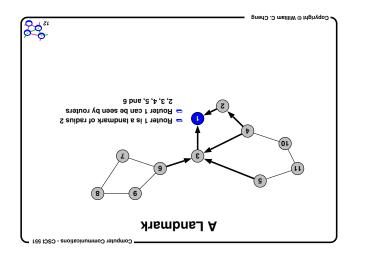
Bouting

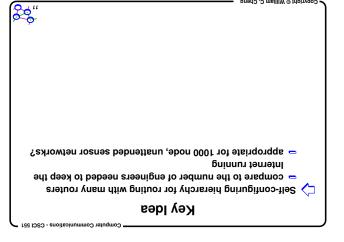
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- each node has routes for other top-level areas only

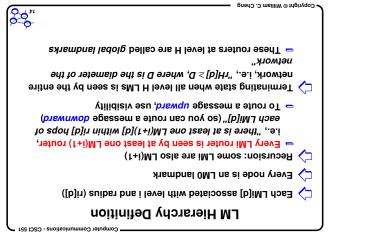
each node has routes to every other node

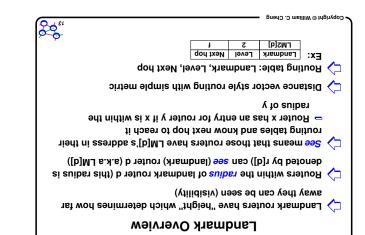






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