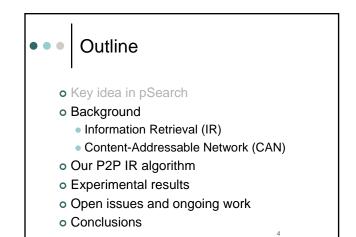


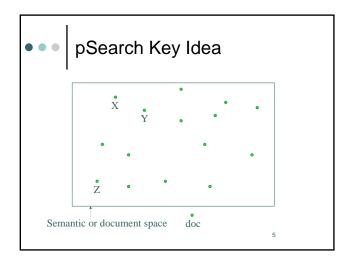
Focus and Approach in pSearch

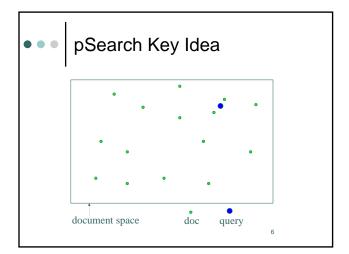
- o Efficiency
 - Search a small number of nodes
 - Transmit a small amount of data
- Efficacy
 - Search results comparable to centralized information retrieval (IR) systems

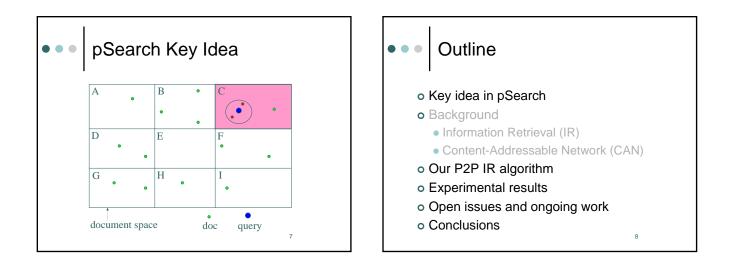
3

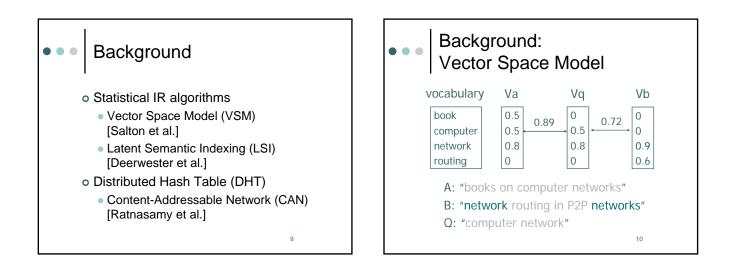
• Extend classical IR algorithms to work in DHTs, both efficiently and effectively

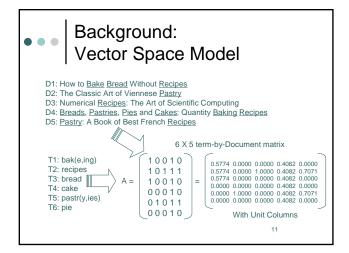




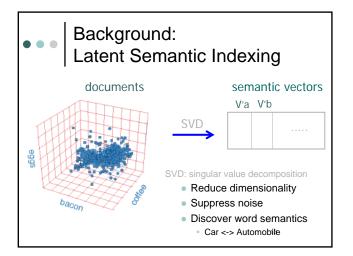


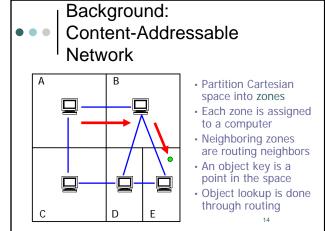


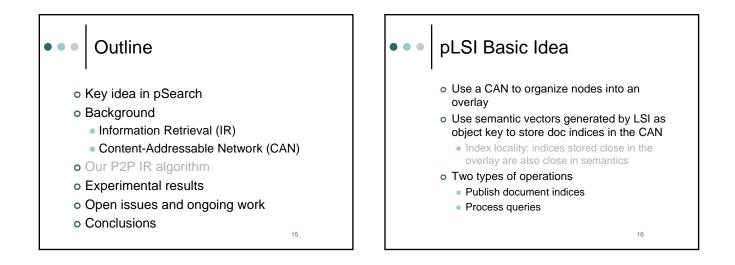


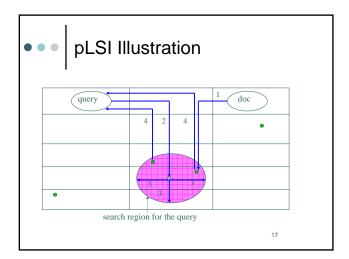


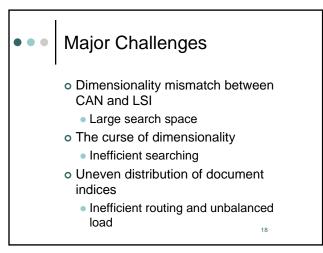
Background: Vector Space Mod	del
 Example query = baking q⁽¹⁾ = (1 0 0 0 0 0)^T Search for relevant document by computing the cosines of t between the query vector q⁽¹⁾ document vectors a_i 	he angles $ heta_{i}$
• Results: only nonzero cosine 0.5774 and cos θ_4 = 0.4082	es are cos θ_1 =
	12

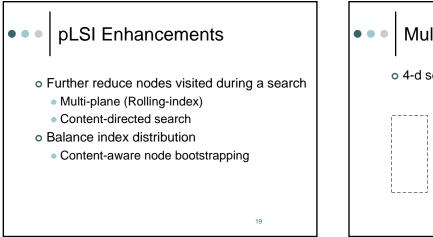


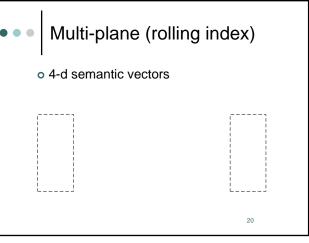


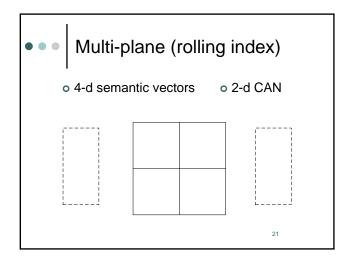


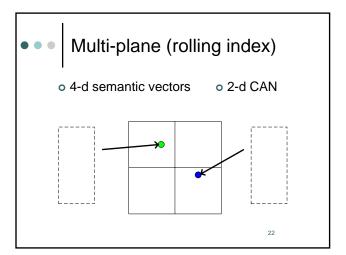


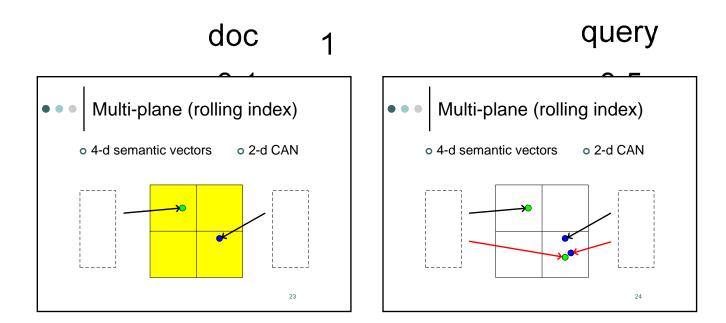


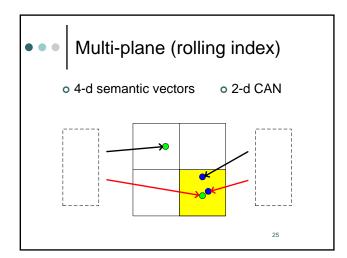


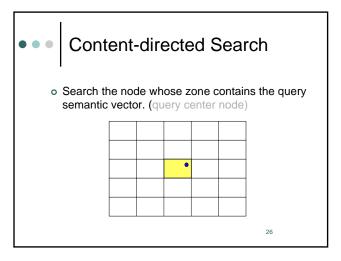


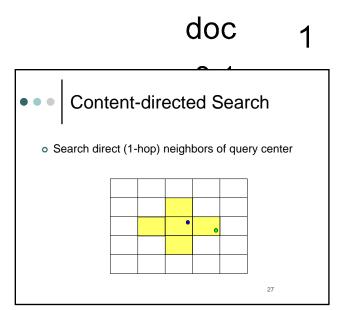


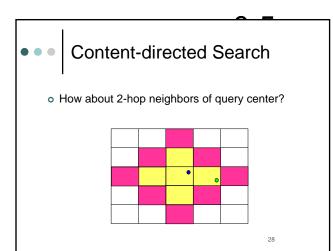












query

