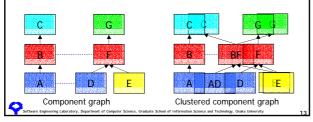


## Similar component

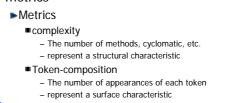
Similar component is copied component or minor modified component

SPARS

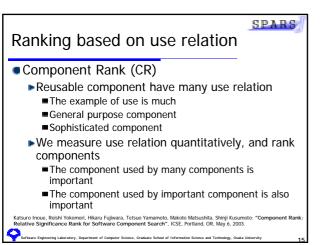
- We merge similar components into single component
- Merged component have use relations that all component before merging have

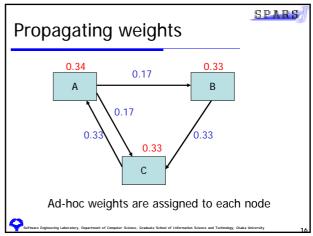


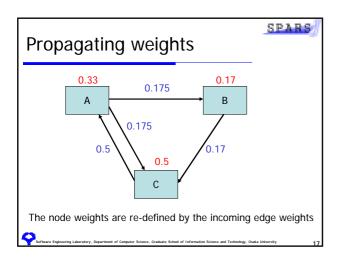
## Clustering components • We measure characteristics metrics to merge components The difference ratio of each component metrics

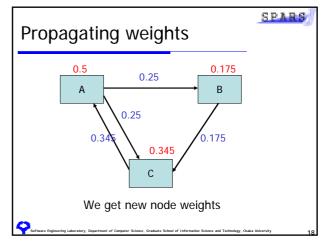


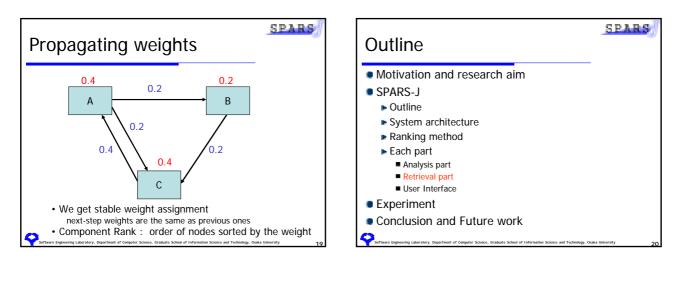
ant of Computer Science, Graduate School of Information Science and Technology, Osaka Universit

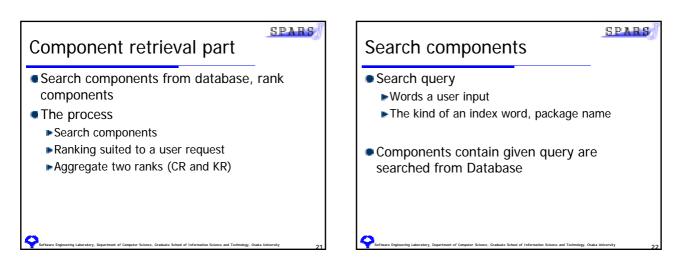


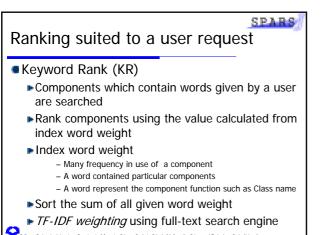


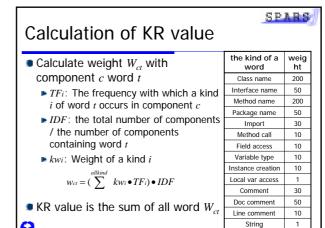








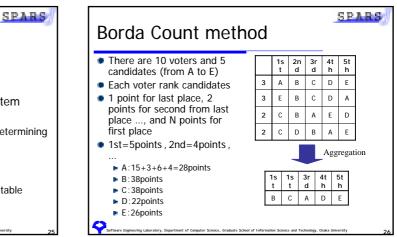


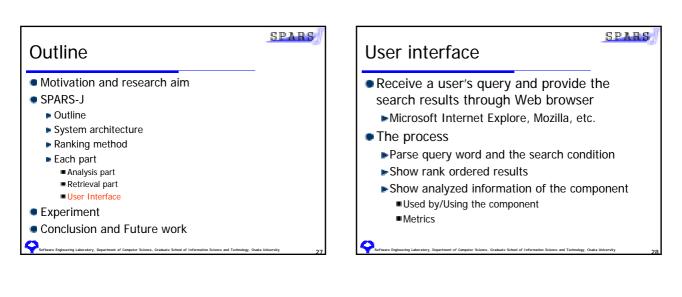


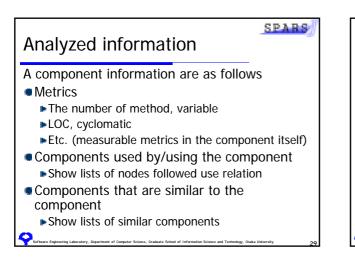
## Aggregate two ranks

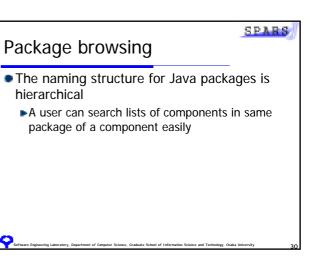
- Aggregate two ranks KR and CR
  Aggregation method
  Borda Count method known a voting system
  Use for single or multiple-seat elections
  This form of voting is extremely popular in determining awards
  SPARS-J
  - Rank components both KR and CR
  - Using KR and CR, the component that be suitable user's request, reusable and sophisticated

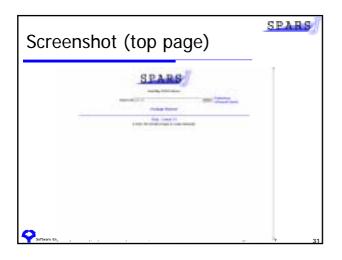
ing Laboratory, Department of Computer Science, Graduate School of Information Science and Techr











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