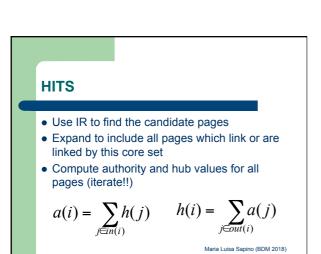
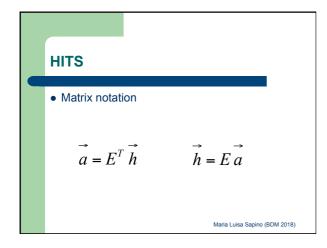
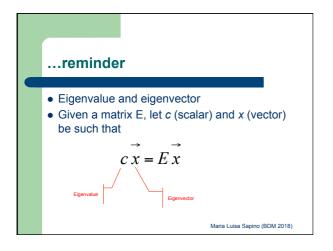


## HITS Use IR to find the candidate pages Expand to include all pages which link or are linked by this core set

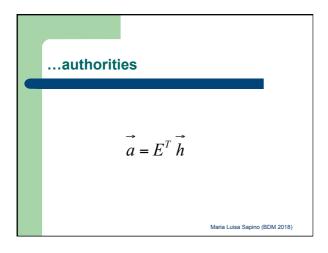


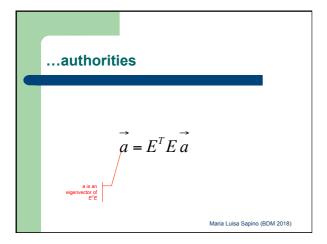
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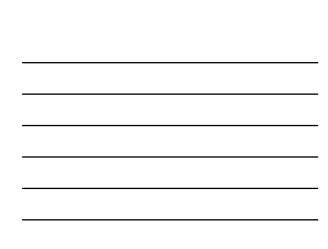


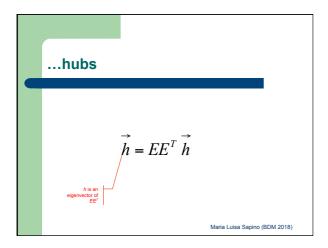




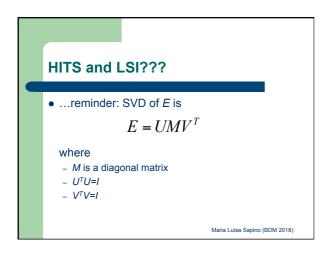


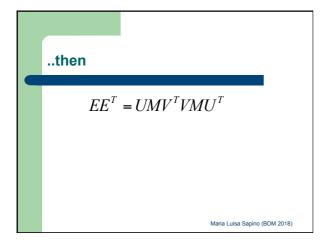




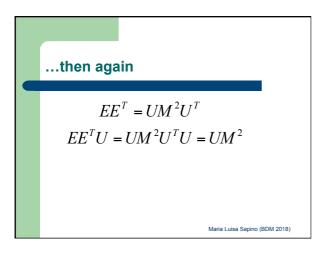


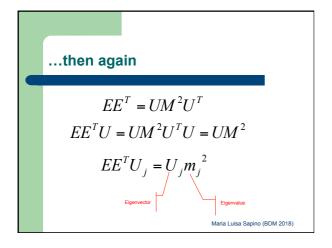


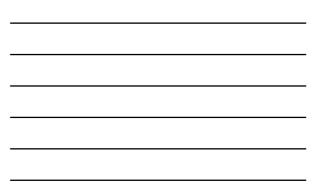


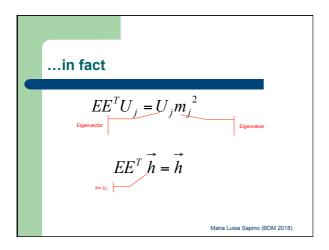


then
$EE^{T} = UMV^{T}VMU^{T}$
$EE^{T} = UMIMU^{T}$
$EE^{T} = UM^{2}U^{T}$
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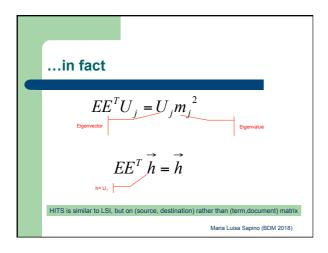




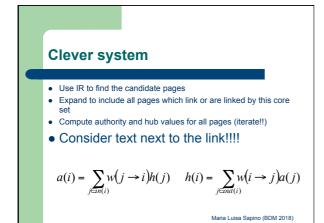


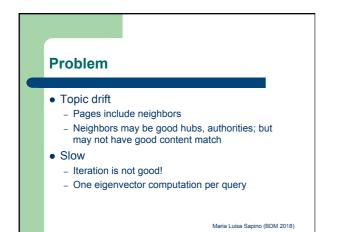












## PageRank

- Random Surfer
  - Jumps from page to page with uniform probability
  - Occasionally jump to a random page with small probability (1-β)
  - If no out page, then jump to any page with equal probability

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