Weighted Finite-State Transducers in Automatic Speech Recognition

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- Monday, 2012.03.26:

  - conventional FSAs

  - review of power set construction

  - set intersection

  - equivalence of FSAs with and without epsilon transitions

  - semirings

- Wednesday, 2012.03.28:

  - shortest path algorithms

  - weighted composition

  - weighted determinization

  - weight pushing

- Monday, 2012.04.09:

  - set partitioning

  - coarsest partition

  - conventional minimization

  - weighted minimization

- Wednesday, 2012.04.11:

  - FSTs in speech recognition

  - representation of knowledge sources

  - search graph construction

- Monday, 2012.04.16:

  - representation of phonetic context
  - complexity
  - proof of correctness

- Wednesday, 2012.04.18:

  - Mohri's theorem
  - fast on-the-fly composition
  - fence, definition and construction
  - run-time comparisons