Stanford Temporal Tagger: SUTime

PA164 – M ACHINE LEARNING AND NATURAL LANGUAGE

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Temporal Tagging

Temporal expressions:

- Time: December 19, 2012; now; the twenties
- Duration: several days, 6 to 8 years
- Interval: Monday to Friday
- Combination thereof: an hour on Wednesday
- Problems encountered
 - Tagging of explicit temporal expressions
 - Event ordering
 - Ambiguity resolution (last Monday, spring)
- TimeML
 - <TIMEX3>

SUTime tagging process

Regular expressions over tokens:

- Tokenization
- Regular expression mapping
- Simple temporal objects
- Composition
 - Complex temporal objects
 - Removing nested temporal expressions
- Finale
 - Ambiguity resolution
 - TIMEX3 annotation
 - Output

Conclusion

- SUTime limits Language specific problems:
 - Ambiguity resolution (fall fall)
 - Named entity resolution (Halloween)
 - Temporal range recognition
- Other systems
 - GUTime
 - HeidelTime
 - TRIPS/TRIOS

http://nlp.stanford.edu/software/sutime.shtm

Thank You and good luck during the exam