# CAP6938-02 Plan, Activity, and Intent Recognition

**Review of Exam** 

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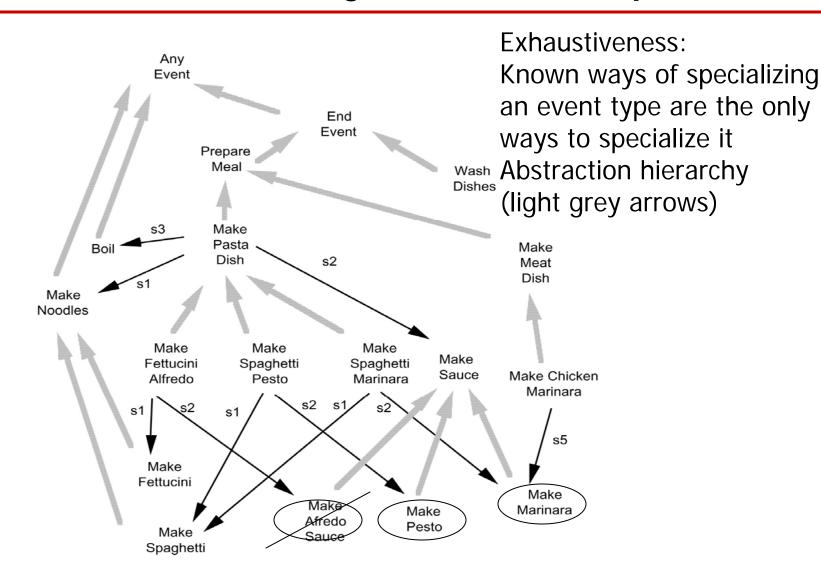
Schedule: T & Th 1:30-2:45pm

Location: CL1 212

Office Hours (HEC 232):

T 3-4:30pm, Th 10-11:30am

## **Event Hierarchy Circumscription**



#### **PSDG Grammar**

- Representation has 3 parts
  - Productions
  - Hidden state (q)
  - Probabilities of executing productions conditioned on q
- Action selection occurs by randomly choosing a production based on the current q and the probability table.
- Strengths/weaknesses:
  - Strength: representation can be compact
  - Weakness: can be difficult to program

# Complete Plan Recognition

 Complete: admit all recognition hypotheses consistent with the history of observations

4

## Marginalization

- When marginalizing remember to multiple each term in the summation by the appropriate prior:
- Example
  - P(C=1,W=0)=P(C=1|W=0)\*P(W=0)