
CPT302: Module Revision

Revision Guideline

The exam will have a similar format to the two class assessments. To prepare for the exam, you should study the following materials:

- the slides that were presented in lectures which are available from the LM
 - your notes from the lectures themselves
 - our discussions during the lectures/tutorials
 - the problems that we discussed in tutorials
-

In addition

For a better understanding, you could study the following materials:

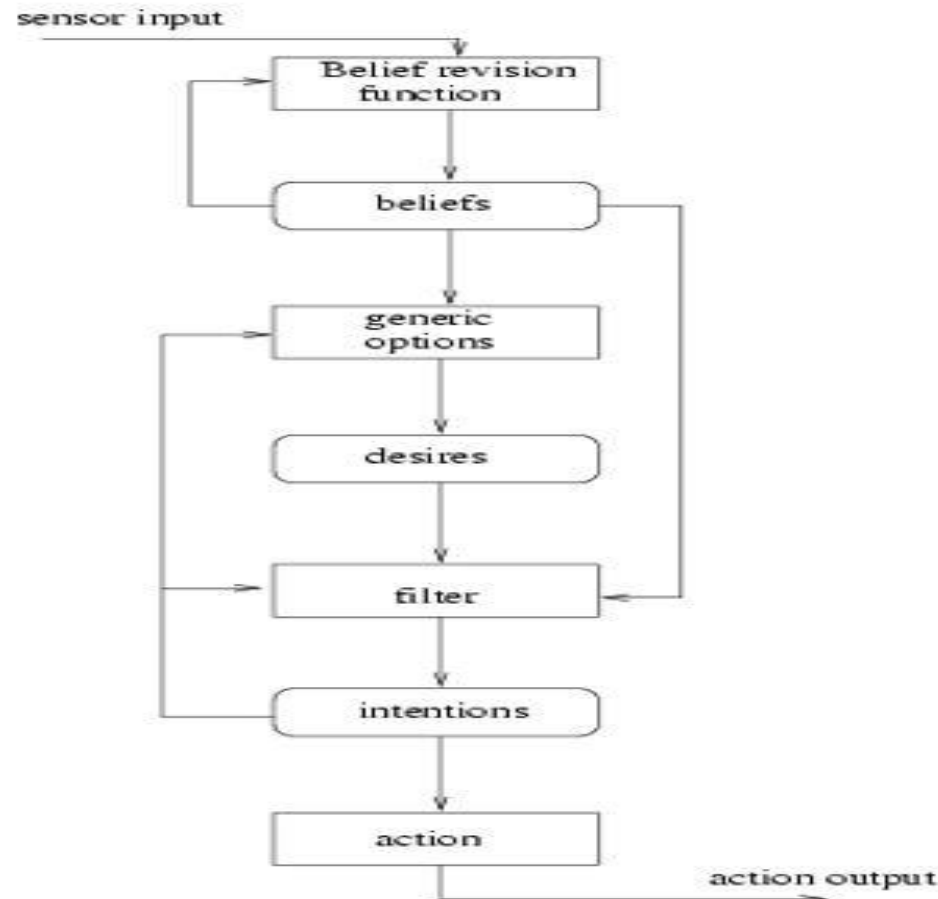
- Additional reading materials/demos/videos available from the LM
 - The below chapters of the text book:
 - Chapter 1, Chapter 2, Chapter 3
 - Chapter 4, Chapter 8, Chapter 11
 - Chapter 12, Chapter 13, Chapter 14
 - Chapter 15
-

Week 1 – Week 8: relevant topics

- *Agents and objects?*
 - *similarities and differences*
 - *Different architectures of agent?*
 - *e.g. vertical, horizontal, hybrid, ..*
 - *subsumption architecture*
 - *Steel's Mars Explorer example:*
 - *How does it work?*
 - *What are rules that it uses?*
-

Week 1 – Week 8: relevant topics

■ *Practical reasoning agent:*



Week 1 – Week 8: relevant topics

- *What are the functionalities of each component?*
- *How do they interact with each other?*

Week 1 – Week 8: relevant topics

- *STRIPS planning problem?*
- *Blocks World (BW)*
- *BW problem like the one asked in Assessment I*

Week 9 – Week 12: relevant topics

- *Auctions: English, Dutch, First-price sealed bid and Vickrey?*
 - *Payoff matrices*
 - *Identify pairs in the payoff matrices that can be in:*
 - *Nash equilibrium*
 - *Pareto optimal*
 - *Coalitional games*
 - *Shapley value*
-

Week 9 – Week 12: relevant topics

- *Voting:*
 - *Plurality vote*
 - *Sequential majority elections*
 - *Borda count*
 - *Majority graph*
 - *Condorcet winner*
 - *Contract net*
 - *CDPS*
-

Sample questions

- *Please just log in our library to obtain the past exam papers*