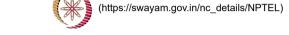
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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Fundamentals of Artificial intelligence (course)

Announcements (announcements) About the Course (preview) Q&A (forum) Progress (student/home) Mentor (student/mentor)

Review Assignment (assignment review) Course Recommendations (/course recommendations)



Course outline About NPTEL () How does an NPTEL online course work? () Week 0: Prerequisites () Week 1: Al and Al Problem Solving ()

Assignment 1

The due date for submitting this assignment has passed.

Due on 2024-08-07, 23:59 IST.

Assignment submitted on 2024-08-07, 22:33 IST

- 1) Aristotle was one of the firsts to attempt to codify "thinking". His ______ provided patterns of argument structure that always 1 point gave correct conclusions, given correct premises.
 - A. deductions
 - B. formalism
 - C. syllogisms

Lec 1: Introduction to Artificial Intelligence (unit? unit=17&lesson=18)	O D. axioms Yes, the answer is correct. Score: 1	
Lec 2: Problem Solving as State Space Search (unit? unit=17&lesson=19)	Accepted Answers: C. syllogisms 2) The developed in 1957 by Alan Newell and Herbert Simon, embodied a grandiose vision: a single computer	1 point
Lec 3: Uninformed Search (unit?unit=17&lesson=20)	program that could solve any problem.	<i>p</i>
• Quiz: Assignment 1 (assessment? name=137)	A. General Problem SolverB. Imitation GameC. Logic Theorist	
Feedback Form week 1 (unit?unit=17&lesson=21)	O D. Enigma Machine Yes, the answer is correct. Score: 1	
Week 2: Problem Solving by Search - I ()	Accepted Answers: A. General Problem Solver	
Week 3: Problem Solving by Search - II ()	3) Of the different dimensions of Artificial Intelligence, "Think Rationally" is to A. Model human cognition.	1 point
Week 4: Knowledge Representation and Reasoning - I ()	B. Formalize the inference process.C. Do the right thing.D. Exhibit human behaviour.	
Week 5: Knowledge Representation and Reasoning - II ()	Yes, the answer is correct. Score: 1 Accepted Answers: B. Formalize the inference process.	
Week 6: Knowledge Representation and Reasoning - III ()	4) Selecting rules and keeping track of those sequences of rules already tried constitute what we call the for production systems. A. Goal Stack	1 point

Week 7: Reasoning	B. Control Strategy
under Uncertainty ()	C. Inference Engine
	O D. Database
Week 8: Planning ()	Yes, the answer is correct.
Week 9: Planning and	Score: 1 Accepted Answers:
Decision Making ()	B. Control Strategy
Week 10: Machine	5) Assertion A: Al Production System with informed control system have high control strategy cost.
Learning -I ()	Reason R: At the informed extreme, the control strategy is guided by information about the problem domain, incurs cost in terms of storage a computation.
Week 11: Machine Learning - II ()	Mark the correct choice as
	○ A. Both A and R are true and R is the correct explanation for A
Week 12: Machine Learning - III ()	B. Both A and R are true but R is not the correct explanation for A
Learning - III ()	C. A is True but R is False
Text Transcripts ()	D. A is false but R is True
Download ()	No, the answer is incorrect. Score: 0
-	Accepted Answers:
Books ()	A. Both A and R are true and R is the correct explanation for A
Live Session ()	6) aims at building machines that act intelligently, without taking a position on whether or not the machines actually are 1 pointelligent.
	A. Weak Al
	B. Strong All
	C. Connectionist AI
	O. Symbolic A
	Yes, the answer is correct.

Score: 1 Accepted Answers: A. Weak AI	
7) Domain knowledge is used to make preferential choice between the child nodes in	1 point
A. Depth First Search	
○ B. Breadth First Search	
C. Heuristic Search	
D. Depth Limited Search	
Yes, the answer is correct. Score: 1	
Accepted Answers:	
C. Heuristic Search	
8) For more complex games, such as chess or checker the AND/OR search to termination is out of question. Which of the following statements are true?I. Our goal in searching such a game tree might be, instead, merely to find a good first move.II. Extract from the search graph an estimate of the 'best' first move.	
○ A. Both I and II.	
○ B. Only II	
○ C. Only I	
D. Both I and II are false.	
No, the answer is incorrect. Score: 0	
Accepted Answers: A. Both I and II.	
9) The AO* algorithm can best be seen as the following TWO major operations:	1 point
○ A. Step I: Top-down: graph-growing; Step II: Bottom-up: cost-revising, SOLVE-labelling.	
B. Step I: Bottom-up: graph-growing; Step II: Top-down: cost-revising, SOLVE-labelling.	

C. Step I: Top-down: graph-growing, SOLVE-labelling; Step II: Bottom-up: cost-revising.	
D. Step I: Bottom-up: graph-growing, SOLVE-labelling; Step II: Top-down: cost-revising.	
No, the answer is incorrect. Score: 0	
Accepted Answers: A. Step I: Top-down: graph-growing; Step II: Bottom-up: cost-revising, SOLVE-labelling.	
10) The is a way of combining the advantages of both depth-first and breadth- first search into a single method.	1 point
A. Iterative Deepening Depth First Search	
B. Bidirectional Search	
C. Best First Search.	
O. Depth Limited Search	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
C. Best First Search.	