Jine	esh. N	Page No. :
oll N	o : ¿Topic:	Date.:
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arc	Assignment - 02 AIE	57
	71379	
*	Tittle:	. Land and
	Implementation of Minmax Alg	= for tir-tar
	toe game.	
		1
*	Aim :	•
	Solving tic tocke game using	minmax ago.
		P W SCAR STATE
*	Objective ! To study and implement minmax	a landard
	To study and implement mining	La contract de la contraction
		July Andrews
	. ,	- 10
(1)	Adversial search:  It is a search strategy used in  problems where multiple agents	decision making
	It is a search strategy	conpete
	It is commonly used in the t	field of game
	It is commonly	I has head from
	theory and AI.	and the state of
,	Tic Tac Toe solving steps : 6	ame represm
(2)	initial state, move generation	evaluation of
	game states, minmax algo.	alpha bela
	frunning.	in a second second second second
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3.	Data Structures +	
	Key features	
	Game tree: nodes, edge	
	Board represe : A 2D array	
	More list	
	Evaluate func*	
	and the second of the second o	
	Key Consol.	
	Key Concepts:	
->		
→	depth and pruning	
->	optimal strategy	
	utility Valuer.	
×15 1	The second section of the second seco	
*	Input:	
	Initial state	_
	as to blance and the property of the	
*	Output:	18
	Sola goal state with optimal path	-
	describe the described the second of	
+	Algorithm:	
	Minmax	
	The state of the s	
*	Plat form:	
	Platform: / linux	
		4
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	+ FAg's:
	1. Compare informed search and adversial
9.	
	seach.
	> Informed search:
	- Utilises domain specialists on finding the - Goal oriented : Focuses on finding the chartest costly path to a
	and tate
	- A CLARE LOCK.
	- txplorer path in a serimate cost to
	goal.
T ale	- single agent Problems.
A.E. My	
	Adversial search in the came
	- Represents all possible moves in
	trom current game.
	- Alpha beta pruning
	- Multi agent problems
	- Explore game trees.
9.2	Explain alpha-beta Pruning.
<i>→</i>	Alpha bet is an optimism technique for the
	mirmax algo used in adversial search
	scenarios.
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		No.:
	key Concepts:	41 +
	(1) Alpha	
l.	(1) seta man house	
	(1) Pruning	
		- 1
	Howit works:	
	Initial call	
	recarrive search	
	pruning search	
	Min Min	
	Max Mode	
	Møde	
	Lace Lace Lace Lace	
-/-	689	
	(2)	
-11 -10 3	and the same of the same that	
	The same Experience made	+
	was the state of t	
	Land to the second of the seco	
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