AIS (Autificial Intelligence Bystems) 08 Nov 2021.

CSP Planning Bayes Net MBPERL Fuzzy logic Neural Netwoork (Basic)

Puoblem on Bayes Net Boblem Context

A musician asks you to help him compose the next big Bollywood hit for the upcoming amards nusic inductry to vieate a probability table with six (6) boolean naciables, but he needs your assistance in analyzing the table.

Without making any assumptions about independ how many parameters do use need in the joint perobability table?

Six nariables A, B, C, D, E, F

	A	B	C	0	E F		Outro	me			4	<u> </u>		
	NOTES	T	F	F	7 7		0.2	4	S u	Мо	Tu			
								- 1	7 5	6	7	8	9	10
8,	-1+							The same	12	13	14	15	16	17
									19	20	21	22	23	24
	,						0.1		7 26	27	28	29	30	
						. 1		1		D-				

With the new day comes new strength and new thoughts. - Eleanor Hoosevell

23 24 25 26 27

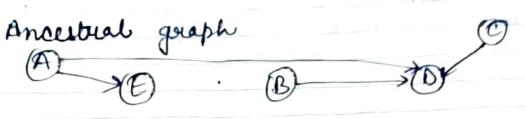
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29 30

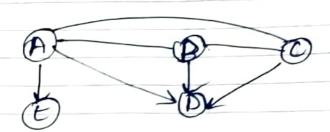
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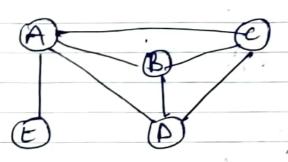
Touce or false. Justif E and B are conditionally independent, given D.



Common children 1 D

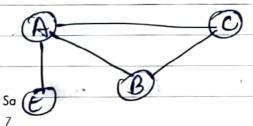


Disprient edgy



Delote given node: A

24



NOTES

9 10 11 12 13 14 Check path blw E

yes (E)—(B)
not conditionally ind

e soul should always stand ajar, ready to welcome the ecstatic experience. - Emily Dickinson

foulse

april 12

Rubblim on CSP (Constraint Satisfaction Prob.) You are an interiore designer hired by a luxury hotel to design a new MP suite. The suite each needing a specific in assignment: Bedroom, living trea, Kitchen, Dining Room or Water Closest is to designate the best in pro each room based on client's needs and preferences. Here is the suite's floorplan with each room labeled for your reference.

The requirements areof Red room, I kitchen, I living Room, 2 Water Use RI must be either bedsoom or living Room Adjacent soons must NOT have the same for eg. 100 adjancent rooms can't be water closets.

BKLW NOTES BKIN

If we are not reclaim one will respect us. - A.P.J. Abdul Kalam

Variable assigned or	list of all values	Backtrack	RI ®
Variable assigned or	just climinated		Re BOW
	from neighbouring		700
RI=B	Re, R3 RY, RS =B	N	R3 Com
R2=K	RS, RU, RE >K	N	
R9=L	RU, RS =L	N	RY WOOD
RY=W	R5 = W	Y	
RS = W	R4, AS None	N	R5 W
RY=L	R5 + L	N	
R5=W	None	N	

DFS + Valid Lomain

Planning suplace a flat time on the cour are spare tive - Devine the plan very partial selep by step solichion algorithm and ahow Conaphilan algorithm the blan using - Dérine step Puton (space, axle) Recieve Cobare, brunk t(sport, trunk). At (sporu, axle)

At (flat, oxcle) arch 'zo

FINISH

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Th 5 7

10 11 12 13 14

21

28 23 24 25 26

30 31

Snowsistent state

At (spare, ground) TATE FLICE, AXIES

7 At (flat, ground)

NOTES

7 At (shore, axley TAL (spare, trunk)

Important principles may, and must, be inflexible. - Abraham Lincoln