





















e Values for Nodes N1-N14		es N1-N14 UMass Dartmo developing innovative technology for a changin		
Node	Bi State	Multi State		
N1	Low/High	None/Yellow/Blue/Turquoise/Other		
N2	Low/High	1 / 2-5 / 6-15 / Other		
N3	True/False	True/False		
N4	True/False	True/False		
N5	Low/High	Low/High		
N6	Low/High	No more than 30 / 31-80 / Other		
N7	Low/High	None/Yellow/Blue/Turquoise/Other		
N8	Low/High	None/Bronze/Other		
N9	Store/Private	Store/Private		
N10	Low/High	Low/High		
N11	Weak/Strong	Weak/Strong		
N12	Low/High	Low/High		
N13	Yes/No	Yes/No		
N14	Yes/No	Yes/No		





Part of the CPT for Node N10 in the Bi-State BN

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F	Т	L	L	0.83
F	Т	L	Н	0.00
F	Т	Н	L	0.15
F	Т	Н	Н	0.00
F	F	L	L	0.86
F	F	L	Н	0.15
F	F	Н	L	0.30
F	F	Н	Н	0.10

of the CPT for Node N10 in the ti-State BN UMass Dart developing innovative technology for a c				
VeriU (N4)	NewU (N3)	Uniq (N2)	B_FB (N1)	P(N10 = H)
F	F	1	None	0.93
F	F	1	Yellow	0.75
F	F	1	Blue & Torq	0.72
F	F	1	Other	0.10
F	F	<=5	None	0.89
F	F	<=5	Yellow	0.87
F	F	<=5	Blue & Torq	0.87
F	F	<=5	Other	0.10
F	F	<=15	None	0.30
F	F	<=15	Yellow	0.25
F	F	<=15	Blue & Torq	0.10
F	F	<=15	Other	0.10
F	F	Other	None	0.00
F	F	Other	Yellow	0.00
F	F	Other	Blue & Torq	0.00
F	F	Other	Other	0.00



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Bidder (FB)	Bid Amount	Bid Time	Bidder (FB)	Bid Amount	Bid Time	
3***3 (27)	US \$630.00	Oct-16-09 08:19:12 PDT	9***a(1)	US \$200.00	Oct-10-09 12:40:10 PDT	
p***t (299)	US \$621.00	Oct-15-09 18:34:38 PDT	g***e (245)	US \$112.50 §	Oct-09-09 15:49:21 PDT	
p***t (299)	US \$611.00 §	Oct-15-09 18:34:38 PDT	9***a (1)	US \$110.00	Oct-10-09 12:39:56 PDT	
g***e (245)	US \$601.00	Oct-14-09 16:59:59 PDT	g***e (245)	US \$102.50 §	Oct-09-09 15:49:21 PDT	
p***t (299)	US \$601.00	Oct-15-09 17:54:10 PDT	9***a(1)	US \$100.00	Oct-10-09 12:39:43 PDT	
g***e (245)	US \$561.00 §	Oct-14-09 16:59:59 PDT	g***e (245)	US \$61.00 §	Oct-09-09 15:49:21 PDT	
p***t (299)	US \$551.00	Oct-12-09 17:09:44 PDT	9***a(1)	US \$60.00	Oct-10-09 12:39:27 PDT	
8***1 (29)	US \$550.00	Oct-14-09 12:31:54 PDT	g***e (245)	US \$51.00 §	Oct-09-09 15:49:21 PDT	
p***t (299)	US \$510.00 §	Oct-12-09 17:09:44 PDT	9***a(1)	US \$50.00	Oct-10-09 12:39:04 PDT	
g***e (245)	US \$500.00	Oct-09-09 15:49:21 PDT	g***e (245)	US \$31.00 §	Oct-09-09 15:49:21 PDT	
m***s (4)	US \$500.00	Oct-10-09 16:49:22 PDT	a***a (21)	US \$30.00	Oct-09-09 13:58:29 PDT	
g***e (245)	US \$405.00 §	Oct-09-09 15:49:21 PDT	g***e (245)	US \$26.00 §	Oct-09-09 15:49:21 PDT	
m***s (4)	US \$400.00	Oct-10-09 16:49:00 PDT	a***a (21)	US \$25.00	Oct-09-09 13:58:02 PDT	
g***e (245)	US \$202.50 §	Oct-09-09 15:49:21 PDT	a***a (21)	US \$0.99 §	Oct-09-09 13:58:02 PDT	
§ Automatic bio	d using eBay pro:	xy bidding system.	Starting Price	US \$0.99	Oct-09-09 08:20:59 PDT	
				1	1	

Evidence of Three Shill Suspects

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Node	Shill Suspect			
Noue	g***e	<i>m</i> ***s	9***a	
N1	Turquoise	None	None	
N2	14	1	2	
N3	False	False	False	
N4	False	False	False	
N5	2	1	4	
N6	6	100	45	
N7	Yellow	Yellow	Yellow	
N8	None	None	None	
N9	Private	Private	Private	

Display Cell Value Probabilitic Inference
1
Calculate Probability
User Probability
Probability of being a Shill Bidder: 0.42864484 Probability of being a Shill Bidder: 0.42864484 Probability of being a Shill Bidder: 0.34491795 Probability of being a Shill Bidder: 0.34491798 Probability of being a Shill Bidder: 0.34491798 Probability of being a Shill Bidder: 0.34491798 Probability of being a Shill Bidder: 0.449573 Bidder Name: 8**1 Probability of being a Shill Bidder: 0.42864484 Probability of being a Shill Bidder: 0.42864484 Probability of being a Shill Bidder: 0.65801245 Bidder Name: m***\$ Probability of being a Shill Bidder: 0.80859745

			Shill Suspect	
Probability of Being	g Shill / Normal Bidder	g***e	<i>m</i> ***s	9***a
	P(shill e)	0.4008	0.6115	0.6391
Bi-State	P(normal e)	0.5687	0.3052	0.2590
	P(shill e)	0.3449	<u>0.8086</u>	0.7234
Multi-State	P(normal e)	0.7456	0.2607	0.2454





