





































lellon		
Virtual Experiment		
Parameters	Values Taken	
Parameters of Interest		
Initial knowledge distribution	random, group based, all same	
Initial Bias Parameter (IBP)	0, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1	
Other Parameters Varied		
Group Activation Threshold (GAT)	-5, -1	
Group Learning parameter (GLP)	5, 25, 50	
Individual Activation Threshold (IAT)	-1, 0	
Constants		
Number of Simulation Turns	150	
Number of Agents	1000	
Number of Knowledge Bits	500	
Number of Interactions	2	
Number of Knowledge bits passed per interaction	1	
Density of knowledge (percent of bits set to 1)	0.4	
Groups Per Agent	1	
Total number of groups	4	
Renetitions	T	
Number of repetitions	10	
	10	
Total Runs	3*11*2*3*2*10 = 3960	



















Carnegie Mellon			
Example 2			
Independent Variables			
IV	Variants	Specific Values	
DCO Forces	12	1, 2, 3, 4,12	
Control Variables	-		
CV	Variants	Specific Values	
Exploit Success Rate	1	4	
Attack Type	1	RPA	
Vulnerability Growth Rate	1	5	
Dependent Variables			
DV	Variable Type		
Vulnerability Rate	Continuous		
Compromise Rate	Continuous		
Repetitions			
Number of Repetitions	30		
Total Runs	12*1*1*1*30 = 360		
CASOS			
Geoffrey Dobson			



