





PennState Institute for Computational and Data Sciences	r Artificial Intelligence Foundations & Sc ntelligence Research Laboratory	eientific Applications PennState Clinical and Translational Science Institute		
Ontological and Epistemological Commitments				
	Ontological Commitments	Epistemological Commitments		
Propositional Logic	Facts	True, False		
First Order Logic	Facts, Objects, Relations, Functions	True, False		
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Inference	e with FOL		
∀xHuman(Human(Joe	$f(x) \rightarrow Mortal(x)$		
Mortal(Joe	?)		
Essentially, we apply sound rules of inference by selectively substitute universally quantified variables with			
 objects from their respective domains 			
 functional expressions that return objects in their domains 			
 or other variables with identical domains 			
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