Metaprogramming for Contract Algorithms

Summer 2022

-Details-

To develop a framework for compiling programs of contracts algorithms with branching and looping logic in **Objective** order to formally compose real-time intelligent systems Intern Mason Nakamura **Advisor** Stuart Russell Justin Svegliato Mentor Meetings Wednesday 2PM - 2:45PM 271 123 1234 Zoom Slack #mca https://github.com/justinsvegliato/metaprogramming-for-contract-algorithms **Github** Overleaf https://www.overleaf.com/project/620d22339797097a9a96eed8

-Schedule-

Week	Due	Reading	Tasks	Deliverables
1	6/8	[Zilberstein, 1996] [Zilberstein and Russell, 1996] [Zilberstein, 1993] • Chapter 5.6.1 [Grass and Zilberstein, 1996] [Svegliato et al., 2020] [Bhatia et al., 2022]	 Develop the compilation problem (by formalizing definitions and the optimization problem) Develop a naive solution method (by formalizing an algorithm) 	Formal definitionsFormal optimization problemFormal algorithm
2	6/15	_	-	-
3	6/22	-	-	-
4	6/29	-		
5	7/6			
6	7/13	_	_	_
7	7/20	-		
8	7/27	_	_	_
9	8/3	—	-	
11	8/10	_	_	<u> </u>
12	8/17	_	_	-
13	8/24	_	_	

^{*} Each deliverable should be completed by the date posted in the schedule.

^{*} This document is subject to change during each week of the internship.