

INDEPENDENT STUDY CONTRACT

Note: Enrolment is subject to approval by the projects co-ordinator

SECTION A (Students and Supervisors)

UniID:	u6958577						
SURNAME:	Wu	FIRST NAMES:	Ying Xian				
PROJECT SUPERVISOR (may be external): Songtuan Lin							
COURSE SUPERVISOR (a SOC academic): Pascal Bercher							
COURSE CODE, TITLE AND UNIT: COMP4550, Advanced Computing Research Project, 24							

SEMESTER S1 S2 YEAR: 2022

PROJECT TITLE:

Transforming partially ordered HTN Planning problems to totally ordered problems

LEARNING OBJECTIVES:

- 1) Understand and reason about properties of (total and partial) HTN planning problems
- 2) Gain insight into the relationship between partially and totally ordered HTN planning
- 3) Be able to utilise PANDA-PI framework

PROJECT DESCRIPTION:

- In C++ and using PANDA-PI framework, implement the algorithm designed by Professor Gregor Behnke for converting partially ordered HTN problems to totally ordered HTN problems
- Discover when the transformation will produce a valid totally ordered problem
- Discover what properties of the problem are preserved after transformation
- · Write thesis on findings
- Present short seminar on findings

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ASSESSMENT (as per course's project rules web page, with the differences noted below):

Assessed project components:	% of mark	Due date	Evaluated by:
Thesis	(85%)	Oct 20 th 2022	Songtuan Lin/ Pascal Bercher
Presentation	(10%)	Oct 27 th 2022	Songtuan Lin/ Pascal Bercher
Critical Feedback	(5%)	1 st Nov 2022	Songtuan Lin/ Pascal Bercher

Presentation		(10%)	Oct 27 th 2022	Songtuan Lin/ Pascal Bercher					
Critical Feedback		(5%)	1 st Nov 2022	Songtuan Lin/ Pascal Bercher					
MEETING DATES (IF KNOWN):									
STUDENT DECLARATION: I agree to fulfil the above defined contract									
	31/01/2022 e Date								
SECTION B (Supervisor): I am willing to supervise and support this project. I have checked the student's academic record and believe this student can complete the project. I nominate the following reviewers and have obtained their consent to review the completed thesis (through signature or attached email)									
Signature	Date								
Reviewer 1: Name: Signature									
Reviewer 2: Name:	Sign	ature							
*Nominated reviewers (one has to be an SOC academic) may be subject to change on request by the supervisor.									
REQUIRED DEPARTMENT RESOURCES:									
SECTION C (Course coordinator approval)									
Signature	 Date								
SECTION D (Projects coordinator approval)									

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Date

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Signature