程序代写代做 CS编程辅导

School of Comput engineering

COMP441 dge Representation and Reasoning

UNSW | Australia's Global University

COMP4418: Knowledge Representation and Reasoning

Lecturers:

- Haris Aziz (K17-L3; Haris.A███████edu.au)

- Maurice Pagnucco (J17-50███████cse.unsw.edu.au)

- Abdallah Saffidine (Lecturer-in-Charge; K17-501B; abdallahs@cse.unsw.edu.au)

Aim: Introduce

- Techniques used in KR to represent knowledge

- Associated methods of automated reasoning

Units of Credit: 6

Prerequisites: COMP3411 plus 6 Units of Credit in COMP3###

COMP4418: Knowledge Representation and Reasoning

Marking: 3 assignments of equal value (15%) and final exam work 55%.

No project but some programming

Text: References provided in class

Format:

- Lectures:

  - Tuesdays 4-6pm, Online

  - Thursdays 4-6pm, Online

  - Lectures posted online before class. Part of class time used for interactive sessions.
- Consultations: as required

Course Structure:

- 3 weeks: Introduction to KRR.

- 3 weeks: Resource allocation, social choice, and cooperative game theory.

- 3 weeks: Non-monotonic reasoning, reasoning about action.

- Note Week 6 is Flexibility Week and there will be no lectures held that week.

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Topics for KRR Part 1: Introduction:

- Introduction to KRR

- First-order logic

- Expressing knowledge

- Full Clausal logic

- Horn Clause logic

- Procedural representation

- Nonmonotonic reasoning and defaults

Topics for KRR Part 2: Algorithmic Decision Theory

– Multi-agent Resource Allocation: allocation problems; efficiency concepts; fairness concepts; representation languages; mechanisms; allocation under endowments; allocation under priorities; allocation of divisible items

– Social Choice Theory: voting rule; impossibility results; axiomatic approach; tournament solutions; domain restrictions; randomization

– Cooperative Game Theory: solution concepts; stability; core; Shapley value, computational of payoffs, computational issues

Topics for KRR Part 3: Non-monotonic reasoning, reasoning about actions

– Introduction to Answer Set Programming

– Solving problems with Answer Set Programming

– Reasoning about Actions

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Assignment Project Exam Help

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