

# Property Demonstration on the Greedy Algorithm Solving Disjoint Paths Problem with Various Examples

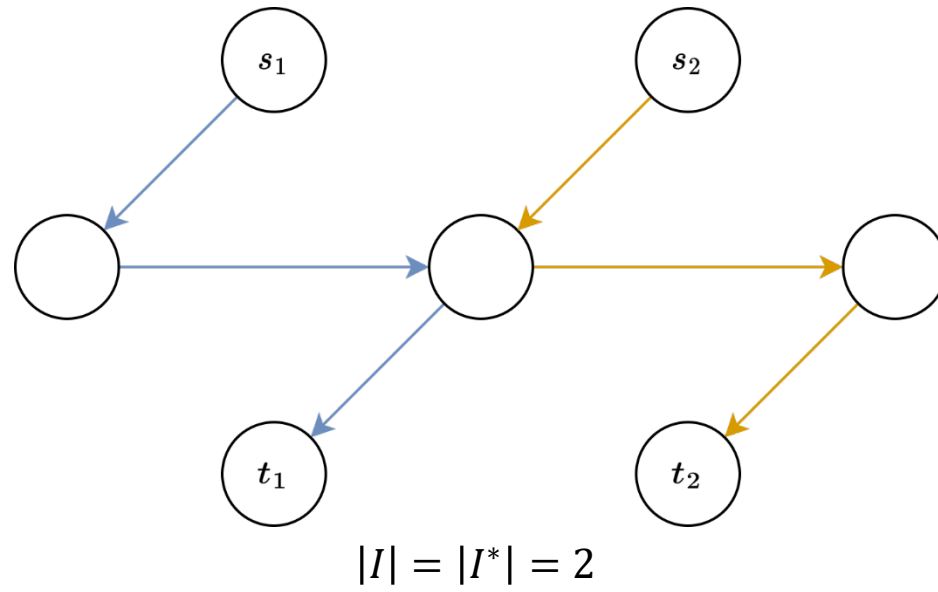
陈子蔚 Chen Ziwei

Department of Computer Science and Engineering

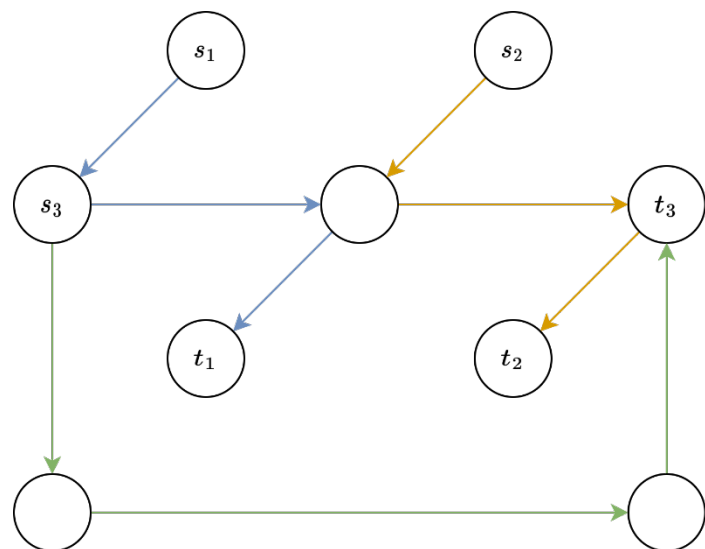
Recent Research Topic: Generative Model

Supervisor: 郑锋

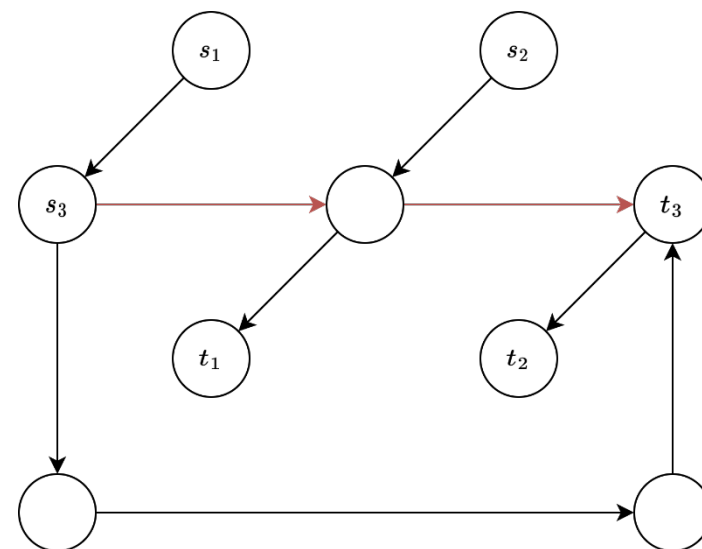
# Task 12-1-1



# Task 12-1-2

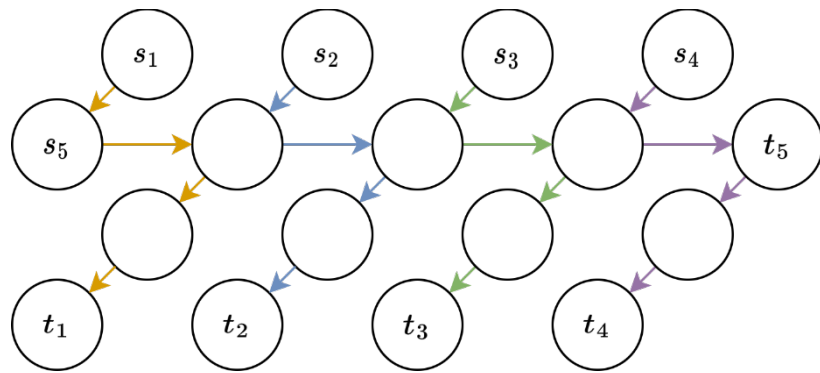


$$|I^*| = 3$$

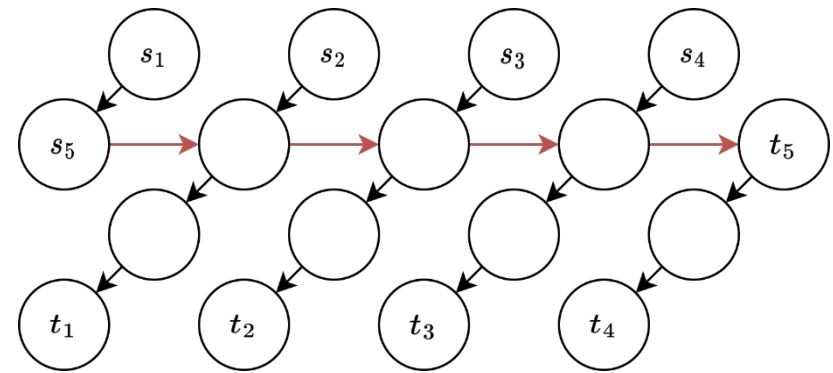


$$|I| = 1 \leq 1 = \frac{|I^*|}{\sqrt{m}}$$

# Task 12-1-3

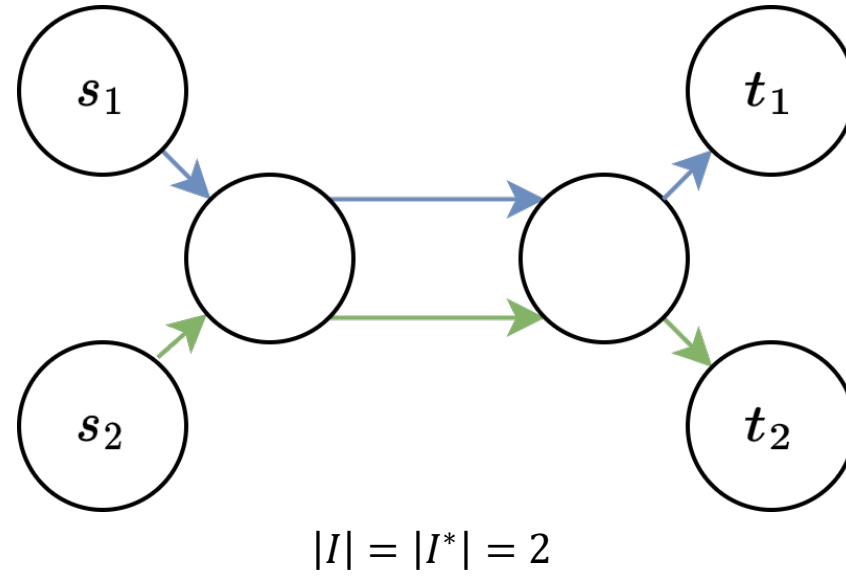


$$|I| = |I^*| = 4$$

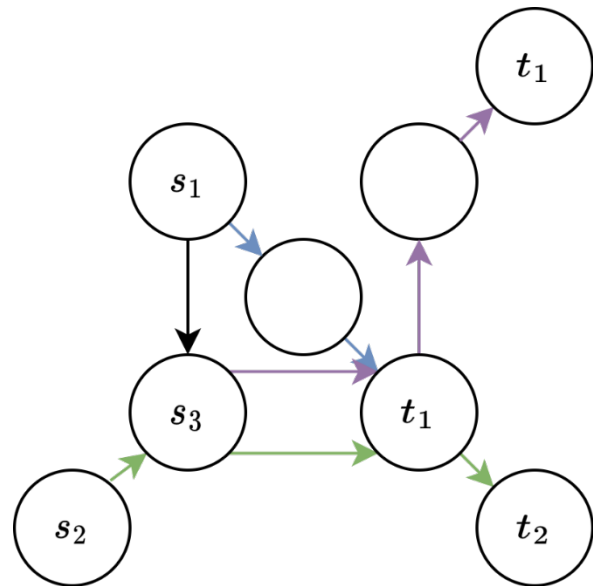


$$|I| = 1 \leq \frac{|I^*|}{\sqrt{m}} = 1$$

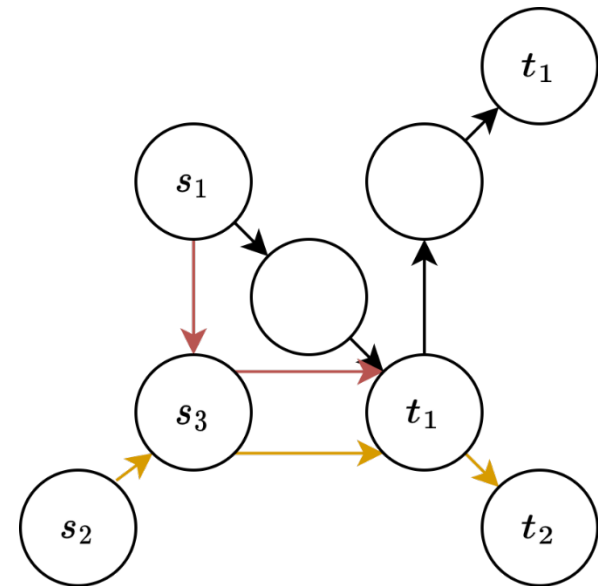
# Task 12-2-1



# Task 12-2-2



$$|I| = |I^*| = 3$$



$$|I| = 2$$

$$m = 8, \frac{|I^*|}{4m^{\frac{1}{3}} + 1} = 0.333$$