

# CSE 300: Online Assignment

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## 1 Introduction

This assignment has been designed to assess the preparation of the students in writing scientific articles using L<sup>A</sup>T<sub>E</sub>X. Different components, that are frequently used in scientific manuscripts, have been covered in this assignment.

### 1.1 Tables

We wish to place Table 1 right here.

Table 1: **Optimization scores for Method-1 and Method-2 on different datasets covering various model conditions.** We show average scores of two optimization criteria for various model conditions.

Simulation Condition			Optimization Score			
Dataset	Complexity	Model Condition	Score 1		Score 2	
			Method-1	Method-2	Method-1	Method-2
D1	easy	M1	7,425.55	770.00	929.55	10
		M2	7,425.55	770.00	929.55	20
	hard	M3	7,425.55	770.00	929.55	34
		M4	7,425.55	770.00	929.55	10
D3	Moderate	M1	7,425.55	770.00	929.55	10
		M2	Not Applicable		929.55	10
		M3	7,425.55	770.00	929.55	10

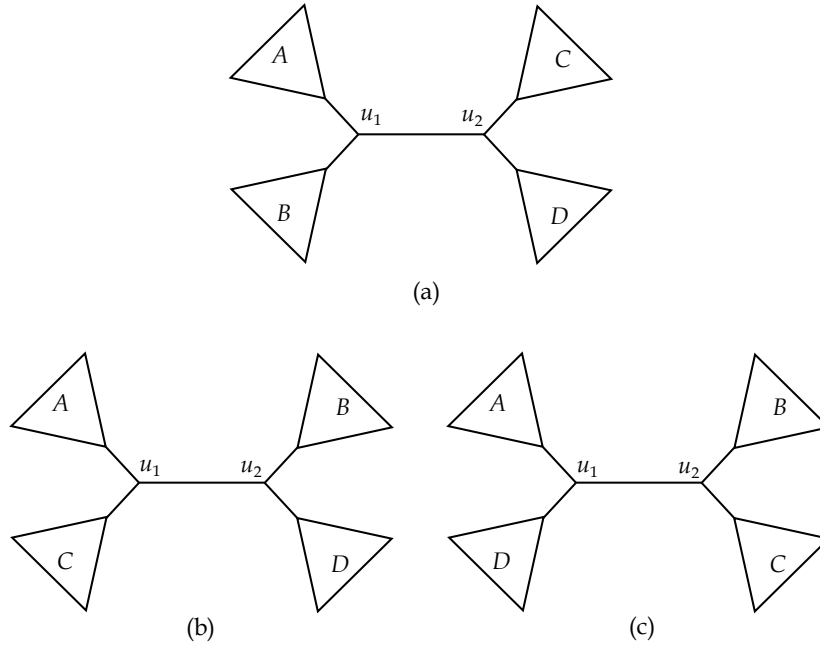


Figure 1: **Nearest Neighbor Interchange (NNI) move on an internal edge.** (a) A species tree ST, and (b)-(c) the neighbors of ST resulting from one NNI move on edge  $e = (u_1, u_2)$ . A, B, C, and D are the sets of taxa in the four subtrees around edge  $e$ .

## 1.2 Figures

We intend to put Figure 1 at the top of a page.

## 1.3 Equations

$$\begin{aligned} \mathcal{NQ}(n_1, n_2, n_3) &= \binom{n_1}{2} \binom{n_2}{1} \binom{n_3}{1} + \binom{n_2}{2} \binom{n_1}{1} \binom{n_3}{1} + \binom{n_3}{2} \binom{n_1}{1} \binom{n_2}{1} \\ &= \frac{n_1 n_2 n_3 (n_1 + n_2 + n_3 + 3)}{2} \end{aligned} \quad (1)$$

## 2 Conclusion

The major objectives of this assignment are listed below (please do not ignore the font sizes).

- To assess the ability of the students in preparing manuscripts in  $\text{\LaTeX}$ .
- To see if the students have adequately practiced different aspects of writing in  $\text{\LaTeX}$ .
- To see if the students can add various basic components (e.g., tables, figures, equations) to a  $\text{\LaTeX}$  manuscript.

- To see if the students can leverage the available materials (both offline and online) to do something which has not explicitly been taught in the class.