

① Introduction

An Illustration

Terminology

Motivation

② Problems

③ Characterization of a feasible TPL

ICPPL

A characterization of feasible TPL

Intersection Cardinality Preserving Path Labeling (ICPPL)

A path labeling (\mathcal{F}, ℓ) on the given tree T s.t.

$$|S_1 \cap S_2 \cap S_3| = |\ell(S_1) \cap \ell(S_2) \cap \ell(S_3)|$$

for all not necessarily distinct $S_1, S_2, S_3 \in \mathcal{F}$