Multi-modal Time Series Analysis

Background

Challenges, Our Motivations, Preliminaries, etc.

Data, Methods & Applications

- Multi-modal Time Series Datas
- Modalities: Time Series, Text, Image, Tabular, Graph, etc.
 Scope, Existing Datasets, Characteristics, Domain, etc.
- Taxonomy of Multi-modal Time Series Methods
- 1. Interaction Stage (Input, Intermediate, Output)
- Interaction Strategy (Fusion, Alignment, Transference)
 Specific Methods (Concatenate, Attention, Contrastive, Gating, etc.)
- Domains & Tasks
- 1. General, Finance, Healthcare, Traffic, Environment, etc.
- 2. Forecasting, Classification, Causal Discovery, Retrieval, etc.
- Future Research Directions

Reasoning, Decision Making, Generalization, Contextual Noise,
Bias & Ethics