Title

"Inflation Narratives from a Machine Learning Perspective"

Presenter

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Motivation

Inflation narratives explain inflation changes and affect expectations. Manually identifying them is cumbersome, prompting the need for scalable algorithms¹. Narratives comprise events,

causal relations, and arguments, represented as graphs with event and argument nodes. Causal relations indicate cause-and-effect relationships between events using directed edges.



Methodology

Our main objective is to extract narratives from text to enhance a knowledge graph

(KG)² for analysis like social network analysis or edge prediction. We address two subproblems: **event extraction**, involving event type and argument identification, and **event deduplication**. Second, we **extract causal relations** as expressed by authors, not necessarily true causal links between events in the text.

¹ <u>https://sustainabilitymethods.org/index.php/Narrative_Research</u>

² Heiko Paulheim: Knowledge graph refinement: A survey of approaches and evaluation methods. Semantic Web 8(3): 489-508 (2017)