Creating Real-Time Dynamic Knowledge Graphs

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Creating Real-Time Dynamic Knowledge Graphs
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MOTIVATION
- Real world events are dynamic in nature
  - Recurring events e.g. US Presidential Election
  - Non-recurring events e.g. Hurricane Irma
- Need for real-time predictive analysis, trend analysis, public opinion analysis for events.
- Current state-of-the-art curates evolving knowledge graph from structured text but not from incoming real-time user generated unstructured text.

OVERVIEW

ARCHITECTURE

APPLICATIONS
- Question-answering systems: Query responses for temporally changing answers.
- Disaster response: Building a machine-understandable semi-structured knowledge repository that represents evolving situational awareness of events during a disaster response.
- Chatbots: DKG can provide a structured platform for the more accurate chatbot responses.

US Presidential Election Schema

EVALUATION CRITERIA
- Social - Media
  - Text
  - July 12 – Bernie Sanders endorses Hillary Clinton

REFERENCES

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