This poster describes data resources created for Phase 1 of the DARPA Active Interpretation of Disparate Alternatives (AIDA) program. The program aims to develop language technology that can help humans manage large volumes of sometimes conflicting information about world events. Technology must be capable of building multiple hypotheses to account for alternative interpretations of what happened. Informational conflict across a set of data including multiple languages, genres, and media types is noted. The corpus described here is designed to support these goals for the Ukraine-Russia relations scenario selected for Phase 1 of the program. The poster expected to start appearing in the LDC catalog starting in 2022, divided into background, practice, and eval sets.

**Overview**

- Political & military relations between Russia and Ukraine in 2014-2015
- Rich in opposing narratives and portrayals of the facts, across a variety of media types and languages
- Several subtopics within the broader domain were selected for data collection and annotation

**Scenario/Topic Development**

<table>
<thead>
<tr>
<th>Set</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Practice</td>
<td>Who Started the Shooting at Maidan? (February 2014)</td>
</tr>
<tr>
<td>Practice</td>
<td>Ukrainian War Ceasefire Violations in Battle of Debaltseve           (January-February 2015)</td>
</tr>
<tr>
<td>Practice</td>
<td>Donetsk and Luhansky Referendum, aka Donbas Status                   (Berkut)</td>
</tr>
<tr>
<td>Eval</td>
<td>Suspicious Deaths and Murders in Ukraine</td>
</tr>
<tr>
<td>Eval</td>
<td>Odessa Tragedy (May 2, 2014)</td>
</tr>
<tr>
<td>Eval</td>
<td>Siege of Sloviansk and Battle of Kramatorsk (April-July 2014)</td>
</tr>
</tbody>
</table>

**Facet-level Hypotheses**

Query: Who fired on protesters at the Maidan protests?

H1: Members of the Berkut, a police force loyal to the Yanukovych government, fired on protesters.

H2: Snipers loosely affiliated with the Ukrainian government fired on protesters.

**Annotation**

- Topic-level event: Members of the Berkut, a police force loyal to the Yanukovych government, fired on protesters.
- Additional mentions of riot police in text and image
- Cross-document coherence and KB linking
- Pilot only: explicit annotation of query-level hypotheses
- After pilot, prevailing theories incorporated into system assessment rather than pre-hoc manual annotation

**Test Set**

- Total 1: 2014
- Total 2: 2015
- Total 3: 2016

**Source Data**

- Text, image & video in English, Russian, and Ukrainian

**Background:** data of unspecified topic content from the approximate time period of the topics of interest

**Practice:** docs collected specifically for relevance to practice topics, for use in system development

**Evaluation:** docs used in system evaluation - some specifically relevant to eval topics plus background data from roughly the same time period and sources which may or may not have general relevance to the wider Phase 1 scenario

**Assessment**

- Class assessment: Is the system response a valid entity of the type indicated?
- Zero-hop assessment: Is the system response a valid mention of the query entity?
- Graph assessment: Does the system predicate justification provided adequate evidence for the assigned type, argument role, and entity filling the argument role?
- Hypothesis assessment: Judge events & relations within system hypothesis for:
  - **Relevance:** responsive to some aspect of the statement of information need
  - **Coherence:** free of illogical or contradictory information
  - **Coverage:** provides enough information to fully express a topic-level hypothesis

**Phase 1 Corpus Results**

<table>
<thead>
<tr>
<th>Docs</th>
<th>Events</th>
<th>Relations</th>
<th>Entities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Background</td>
<td>704</td>
<td>1967</td>
<td>569</td>
</tr>
<tr>
<td>Practice</td>
<td>204</td>
<td>1955</td>
<td>1848</td>
</tr>
<tr>
<td>Evaluation</td>
<td>248</td>
<td>2456</td>
<td>2029</td>
</tr>
<tr>
<td>Total</td>
<td>1156</td>
<td>6378</td>
<td>4446</td>
</tr>
</tbody>
</table>

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