Identifying the Human Values behind Arguments

**Background**

- **Epistemological Why**
  - Why is this true?
  - Ever branching reasons (infinitely?)

- **Ethical Why**
  - Why is this good?
  - Leading to values (finite set)

**Human Values**

are (1) beliefs (2) pertaining to desirable end states or modes of conduct, that (3) transcend specific situations, (4) guide selection or evaluation of behavior, people, and events, and (5) are ordered by importance relative to other values to form a system of value priorities.

(Schwartz)

- Can be resorted to in arguments
- Are most often implicit in argumentation
- Are an aspect of argument strength (through relative importance)

**Operationalization**

- Consolidated from 4 authoritative sources from social science
- Adapting Schwartz’ circular taxonomy
- For each value: description of aspects that arguments might list
- Tested and refined during data collection

**Example value**: Have a comfortable life

E.g., arguments listing

- subsistence income
- a higher general happiness
- a prosperous life

**Multi-label Classification**

<table>
<thead>
<tr>
<th>Model</th>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
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<td>R</td>
<td>F1</td>
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**Values (Level 1)**

- BERT
- SVM
- 1-Baseline