**Motivation**

**High-quality human data is essential** for dialog system development
- Crowdsourcing platforms such as Amazon Mechanical Turk (AMT) are used to create Human Intelligence Tasks (HITs)

**Collecting** high-quality data is **challenging**
- Learning curve for HIT creation
- Technical Issues
- Instructional Issues
- Payment Inadequacy

**DialCrowd 1.0**

Allowed requesters to create HITs **efficiently**
- Instead of HTML, requesters fill out a form
- DialCrowd automatically generates a clean interface for the workers

Effective in **reducing the time** spent by requesters
- User study participants rated DialCrowd 4 out of 5 for usefulness

**Adaptable**
- Can be used with any crowdsourcing platform

**Task Creation Tools**

- **Clarity**
  - Instructions
  - Examples and counterexamples with explanations
  - Worker feedback

<table>
<thead>
<tr>
<th>Category</th>
<th>Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>transactions</td>
<td>how much did my last purchase cost because...</td>
</tr>
<tr>
<td></td>
<td>I need to see all visa purchases for March because...</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Counterexamples</th>
</tr>
</thead>
<tbody>
<tr>
<td>help me transfer $x from credit to debit because...</td>
</tr>
<tr>
<td>how much do i have to pay for my cable bill because...</td>
</tr>
</tbody>
</table>

**Quality Detection Tools**

Identifying low quality data
- Duplicated tasks
- Golden data

Identifying Outliers
- Time spent
- Patterns
- Agreement

**Conclusions**

- DialCrowd is available at cmu-dialcrowd.herokuapp.com
- Intent classification template is available through ParlAI