Research Overview

Thamar Solorio
Associate Professor
Research Interests

Research Area: Natural Language Processing (NLP)

Gist: automated processing of human language to solve meaningful problems
Most NLP technology assumes input in one language only.
# First Workshop on Computational Approaches to Code Switching

## Tweet Level

<table>
<thead>
<tr>
<th>Team</th>
<th>Accuracy</th>
<th>Recall</th>
<th>Precision</th>
<th>F1-Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMU</td>
<td>0.859</td>
<td>0.682</td>
<td>0.803</td>
<td>0.737</td>
</tr>
<tr>
<td>TAU</td>
<td>0.868</td>
<td>0.720</td>
<td>0.803</td>
<td>0.759</td>
</tr>
<tr>
<td>A3-107</td>
<td>0.835</td>
<td>0.773</td>
<td>0.692</td>
<td>0.730</td>
</tr>
<tr>
<td>IUCL</td>
<td>0.839</td>
<td>0.513</td>
<td>0.879</td>
<td>0.648</td>
</tr>
<tr>
<td>IUCL*</td>
<td>0.838</td>
<td>0.514</td>
<td>0.877</td>
<td>0.648</td>
</tr>
<tr>
<td>JustAnEagerStudent</td>
<td>0.699</td>
<td>0.883</td>
<td>0.489</td>
<td>0.630</td>
</tr>
<tr>
<td>MSR-India</td>
<td>0.821</td>
<td>0.766</td>
<td>0.666</td>
<td>0.713</td>
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<tr>
<td>DCU-UVT</td>
<td>0.804</td>
<td>0.845</td>
<td>0.618</td>
<td>0.714</td>
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<tr>
<td>Baseline (LangID)</td>
<td>0.735</td>
<td>0.340</td>
<td>0.571</td>
<td>0.426</td>
</tr>
<tr>
<td>Baseline (Lexical)</td>
<td>0.707</td>
<td>0.826</td>
<td>0.496</td>
<td>0.620</td>
</tr>
</tbody>
</table>

Codeswitched tweets: 471 | Monolingual tweets: 1155 | Total tweets: 1626
Author Profiling

Research sponsored by:

National Science Foundation
WHERE DISCOVERIES BEGIN
$ Child, Examiner
+ SubjectId: H0096062
+ DOE: 4/3/07
+ CA: 6:4
+ Grade: K
+ Gender: M
+ Context: Nar
+ Language: English
+ Examiner: Dr. Perez
+ Transcriber: DR
- 0:00
+ [beginfrogretell]
+ H0960623A
- 00:00:31
C The kid is|be walk/ing[mv] with animal/s [G].
E Mhm.
C The frog jump/*3s[mv] out [U].
E Mhm.
C (Mm) the frog say/*3s[mv] (bye) bye [U].
E Ok.
C The frog (um) see/*3s[mv] a flower [U].
E Mhm.
C The frog got|get[ip][mv] a bee [g].
NLP & Patient Generated Data

• **Goal:** Extract information relevant to the functional status of patients.
RA positions available, for more information drop by or email:

solorio@cs.uh.edu