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Multi-modal Non-Verbal Communication Analysis in Victim-Offender Mediation Sessions

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Conversation settings
Mounted video sample
Conversation settings
Recorded regions

<table>
<thead>
<tr>
<th>15</th>
<th>Barcelona</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Vilanova i la geltrú</td>
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<tr>
<td>2</td>
<td>Tarragona</td>
</tr>
<tr>
<td>2</td>
<td>Centre Penitenciari de Joves (Granollers)</td>
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<td>2</td>
<td>Manresa</td>
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<tr>
<td>1</td>
<td>Terrassa</td>
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</tbody>
</table>
Human Pose Recovery and Behavior Analysis

Scene Understanding and Artificial Intelligence

Methodology
System modules

Multi-modal Feature Extraction

Depth Analysis

RGB Analysis

Audio Analysis

Behavioral Indicators Extraction

Learning and Classification
Methodology
Multi-modal feature extraction

Audio

Depth

RGB

Speech Diarization

User Segmentation

Region Detection

Face Analysis

Hand Analysis

Upper Body Analysis
**Methodology**

Behavioral indicators and results

**Behavioral Indicators Extraction**

- Target Gazes Codification
- Agitation Estimation
- Posture Identification
- Speech Turns

**Table 2: Accuracy predicting agreement.**

<table>
<thead>
<tr>
<th>Label</th>
<th>Adaboost</th>
<th>CF</th>
<th>FF</th>
<th>SVM</th>
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<tbody>
<tr>
<td>Agreement</td>
<td>71%</td>
<td>71%</td>
<td>75%</td>
<td>71%</td>
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</tbody>
</table>
Thank You!

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