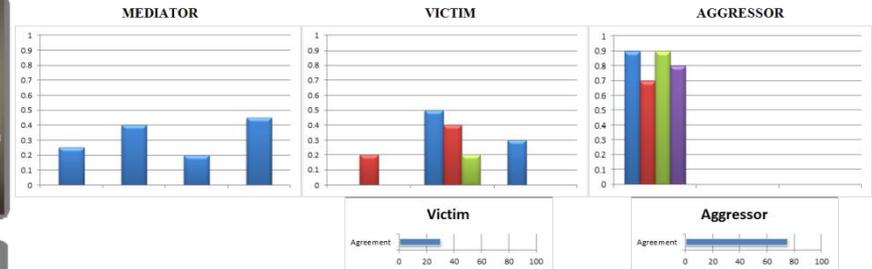# Social Signal Analysis in Criminal Mediation Processes

Success Prediction

Low level indicators	High level indicators
Body parts detection (head, chest, superior arm, inferior arm, and hands).	Comfort: keep hands visible.
Quantifying the degree of body parts activity (agitation).	Activity: talking time, interruptions to other people, emphasis.
Self-interaction of body parts (hand touches the head).	Stress: quantity of body agitation.
Computing body parts positions (tilt, head position).	Involvement: look to the eyes, agitation while talking.

$$P(I_a|S)$$

S : gesture sequence.

I : Indicator of an actor a (mediator, victim or offender).

Social Signals

**Provide high amount of important and hidden information of conversational processes.
Difficult to be detected by human conscious.**

Full compressed and encrypted data

Exportation procedure

RGB — Depth — Audio

Data from Mediator

Objective Information — Subjective Information

- Success/failure
- Information of each part

- Mediator's impressions about the session development