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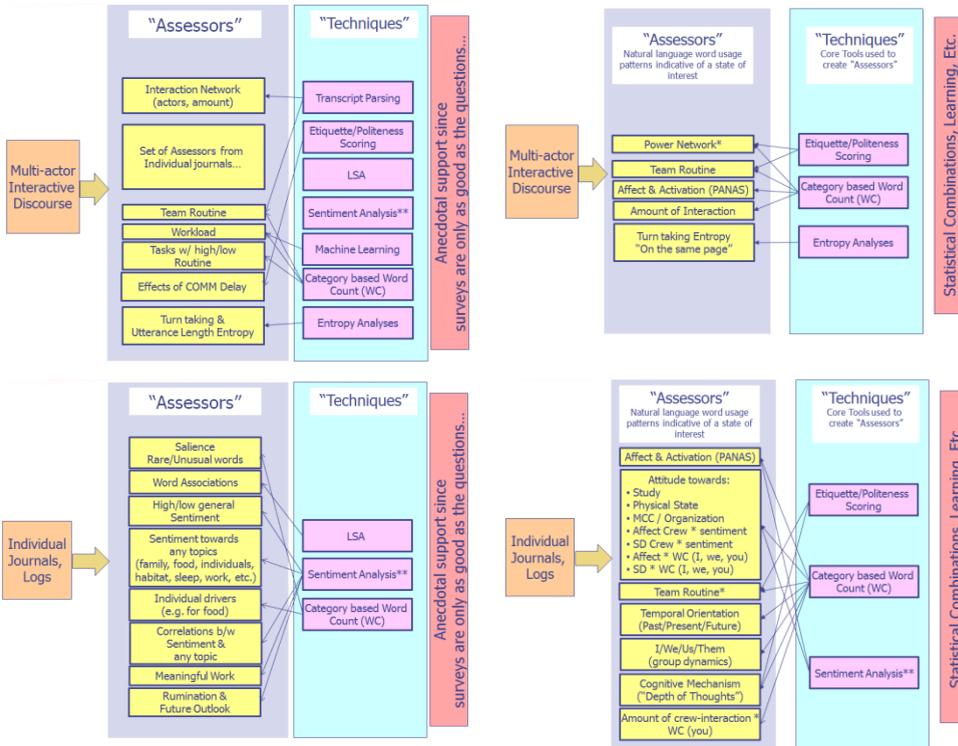
Automated Detection of Attitudes and States through Transaction Recordings Analysis

Rapid, Non-intrusive Linguistic Detectors of Team Dynamics, Sentiment, and Individual States

Assessments Supported by:

Anecdotal Evidence

Survey Correlations



Key Features

- Examine any textual data (e.g. after action reports, debriefs, journals, emails, transcripts) to derive topic salience, sentiment, individual mood states, personalized motivating factors, team dynamics, and trends over time to correlate with events and rapidly gain insight into teams and individuals.
- Automated text analysis to produce time and cost savings over traditional survey based and manual text analysis
- Quantitatively characterize qualitative data for computationally tractability and rapid analysis
- Successful validation of linguistic analysis approaches
- Validation studies at three flight analog facilities.

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Identification and Significance of Innovation:

- Use non-intrusively collected linguistic data from journals, chat and dialogues to replace surveys which are intrusive, time consuming, subject to error, and will breakdown in isolated and confined environments.
- Perform linguistic data with post hoc (i.e. unplanned) analysis, which is not possible with surveys.
- Builds upon decades of socio-linguistic theory and empirical findings
- Technique validated against survey data and natural or experimental variations.
- Achieved better correlation with linguistic analysis than surveys from nursing staff.
- Analyses yield rich personal, interpersonal and task-related attitudes—above and beyond what can be collected by most surveys.