Text mining and defense inference in discourse analysis in psychology

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This study takes place in the context of the project of implementation of:

David Maldavsky’s DLA methodology of discourse analysis in Horacio Saggion’s NLP GATE tool

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Subject of interest for the Argentine Secretary of Science and Technology which has subsidized this workshop
• Wishes and defenses in Freudian theory

• Operationalization of wishes and defenses in DLA method of discourse analysis

• Annotation of defenses in GATE NLP tool
Previously:
discourse analysis was carried out in lineal fashion.

Nowadays:
because of the information overload, discourse analysis is selective

The objective:
a representative sample that complies with validity and reliability requirements
Effectiveness of TM for discourse analysis in psychology

- Manual or IT supported
- Identify key information
- Consists in:
  - Extraction of relevant data
  - Classification of information according to patterns
  - Interpretation of results
  - Organization of results in data bases
  - Hypothesis construction and testing
Theoretical basis for this project: Defense concept in DLA and Freudian theory

- Wishes
  - Survival
  - Species propagation, sex, love
  - Personal growth
- Wishes are components of Eros (life drive / libido)
- Normal defenses are a successful effort of Eros to neutralize the death drive / mortido
- Pathogenic defenses involve masochism and alteration of the self preservation drives
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<th>EGO</th>
<th>WISH</th>
<th>PATHOLOGICAL DEFENSES</th>
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**ALL EGO STRUCTURES - FUNCTIONAL DEFENSES**

according to the goal, creativity, sublimation

**Ego structures, wishes, defenses**
• Defenses: transactions between wishes to preserve the Ego from perceptions, affects, judgments by refuting, abolishing the Ego (definitive, superego, primitive). regressing from PREC to UCC, changing goals of wishes

Transactions can be: successful – failed - both

• Cluster model
  • Normal or functional defenses:
    ◦ According to the goal
    ◦ Creativity
    ◦ Sublimation
  • Pathological defenses:
    ◦ Repression (neuroses)
    ◦ Disavowal (pathological character traits)
    ◦ Foreclosure of reality or ideal(psychooses)
    ◦ Foreclosure of affect (traumatic and toxic pathologies)
Operationalization of wishes and defenses in the DLA

- Wishes (attitudes, motivation, values, criteria)
  - Levels: words, speech acts, narration

- Defenses
  - Levels: speech acts, narration
  - Normal or functional defenses: according to the goal, creativity, sublimation
  - Pathological defenses: repression, disavowal, foreclosure of reality or ideal / of affect

- State of the defense: successful, failed, both

- Function of defense: main, complementary
DEFENSE as attribute in NLP tool GATE

Defense
a) Functional
b) Pathological

A2
a) according to the goal, creativity, sublimation
b) repression

A1:
a) according to the goal, creativity, sublimation
b) disavowal, foreclosure of reality / ideal
Advantages for researchers

- Words level
  - Orientation

- Speech acts level:
  - Proportion of A2, A1 appearing in vocabulary/discourse

- State of the defense
  - Can be inferred from the wishes present in the last speech act of each paragraph
THANK YOU