Analysis

Examples

On the Syntax-Discourse Interface in Hungarian

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Discourse-configurational language (?): the syntactic structure is determined by the discourse functions (relation between the sentence and the discourse), and not by grammatical functions

Hungarian: preverbal part of the sentence is determined by the information structure adjusting the sentence to different discourse constellations (and not by the fixed position of grammatical functions, such as *subject* or *object*)

Schematic syntactic structure:

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Schematic syntactic structure:

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- modeling the syntax-discourse interface (in Lexical-Functional Grammar)
- considering often ignored data
- proposing a discourse-neutral syntactic structure
- proposing an alternative information structure architecture

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The Topic Field I

Topic:

- old-new/given-new distinction (?); aboutness; entity ? or question (layered discourse topic, ??)
- **Def**: the constituent that links the sentence to the preceding discourse.
- Thematic shifter: a subtype of topic, present mostly but not exclusively in narrative contexts when the sentence does not continue the previous subtopic of the discourse topic, but introduces a new subtopic
 - (1) A **'VONATON 'TEGNAP** sok 'gyerek 'utazott. the train.SUPERESS yestarday a lot of child travel.PST Yesterday, there were a lot of children travelling on the train.





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The Topic Field II

- **Contrastive topic**: a subtype of topic, always co-occurring with a focus (its correlate), introducing a complex discourse strategy (?)
 - (2) Question-Answer Pair
 - a. KI mit hozott a bulira? (question word) who what bring.PST the party.SUBL Who brought what to the party?
 - -/MARI csokitortát hozott. (contrastive topic) Mari chocolate cake bring.PST As for Mary, she brought a chocolate cake.

 \rightarrow implies that there is at least one other person who did not bring a chocolate cake, but something else

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• often referred to as "Focus position", or FocP above the VP (???)

• great variety of elements, not an exclusive focus position

- some of the elements can be accented and interpreted as focus *in situ* (verbal modifiers, etc.), but they must follow the verb in the presence of other elements (focus, question words) → OT analysis (?)
- common semantic interpretation? *specificational predicates* (?) (main predicate, semantically distinguished position...)



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Elements in the PPP I

- verbal modifiers (particles, bare nominal complements)
 - (3) János Klolvasta a könyvet. (verbal particle) János VM.read.PST the book.ACC John finished the book.
 - (4) 'János 'FÁT vág az 'erdőben. (bare nom compl) János wood chop the forest.INESS John is chopping wood in the forest.
- infinitives
 - (5) 'János 'KIRÁNDULNI akar. János hiking want John wants to go hiking.



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negative words

 (6) 'János 'NEM akar 'kirándulni. (negative word) János not want hiking John doesn't want to go hiking.

secondary predicates

János PIROSRA festette a kerítést.
 János red.SUBL paint.PST the fence.ACC
 John has painted the fence red.

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• the HOCUS (??)

- refers to some participant or circumstance in the event denoted by the predicate
- the event denoted by the verb is not particularly newsworthy, or it is a regular event
- the circumstance or participant denoted by the hocus appears as something unusual or unexpected
- the main proposition of the sentence is the identification of this participant or circumstance
- \neq focus (no pitch accent)
- (8) János tegnap VONATTAL utazott haza. (NP) János yesterday by train travel.PST home Yesterday John took the train to go home.
- (9) KEVESEN jöttek el a bulira. few come.PST VM the party.SUBL Only few people came to the party.



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Elements in the PPP II

• Focus:

- the semantically prominent element of sentences that necessarily co-occur with another discourse segment; a typically in replies, *i.e.* answers to questions, corrections, contrast, parallel, etc.
- prosody in Hungarian: sharp falling pitch accent on the PPP "eradicating" the other possible stresses in the rest of the sentence

(10) Answer:

- a. Q: -Ki hívta meg Marit a bulira? who invite.PST VM Mari.ACC the party.SUBL Who invited Mary to the party?
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(11) Correction:

a. -Mari tegnap kiolvasta a Háború és Mari yesterday VM.read.PST the War and békét.

Peace.ACC

Mary finished yesterday War and Peace.

b. -Nem, **A BŰN ÉS BŰNHŐDÉST** olvasta ki. no, the Crime and Punishment.ACC read.PST VM No, she finished *Crime and Punishment*.

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Question words

(12) Kit hívott meg János? (question word) who.ACC invite.PST VM János Who did John invite?

Multiple question:

(13) Ki mit hozott a bulira? (two question words) who what bring.PST the party.SUBL Who brought what to the party?

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Neutral and non-neutral sentences

Neutral sentences: sentence type exhibiting level prosody, all-focus or contains a thematic shifter, no contrastive topic, focus or question word

Non-neutral sentences: contain a contrastive topic, focus or a question word, prosodically: pitch accent in the PPP no/reduced stress in the rest of the sentence

In the discourse: they are part of different discourse relations \rightarrow non-neutral sentences are part of discourse relations containing a semantically distinguished element (question-answer pairs, correction, contrast, etc.)

 \rightarrow there is no such element in neutral sentences, the PPP is occupied by an element carrying some specific semantic meaning (aspect, identification, etc.) (?)

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The Framework

Lexical-Functional Grammar

non-derivational framework

- parallel levels of representation, mapped onto each other via correspondence functions
 - c(onstituent)-structure: tree diagram based on flexible X-bar principles (usually no empty categories, no binary branching)
 - (unctional)-structure: feature matrix encoding grammatical functions and predicate-argument relations
 - p(resodic)-structure (7); argument structure; morphological structure....
 - i(nformation)-structure, s(emantic)-structure





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 \rightarrow flat structure (the linear order reflects scope relations) \rightarrow no motivation for a VP



Analysis

LFG Preliminaries

- discourse functions encoded in the f-structure, associated with a grammatical function ex. *topic* and *subject* (functional uncertainty)
 - (14) Bagels, John hates.
- problem: i-structure units do not correspond to syntactic constituents
 (?)
 - (15) It was the GREEN tie that John was wearing.
- focusing of the predicate would be impossible without its complements
 (?)
 Russian:
 - (16) Ona PROČITALA knigu.
 she read.PST book
 She DID read the book.





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New approach: separate i-structure (a feature matrix) consisting of four sets, based on two features

	Topic	Focus	Background Inf.	Completive Inf.
New	_	+	—	+
Prominent	+	+	_	_

 \rightarrow analysis of the syntax-discourse interface in Hindi-Urdu (?)

?



Semantics and i-structure

• the information structure projection is linked to the semantic projection via the mapping function ι

- the meaning constructors of all the members of a clause are associated with a discourse function (information structure set), represented in the semantic description of their lexical entry
- the information about the particular i-structure role the meaning constructor takes on can come from various sources: ex. syntactic position, prosody





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```
c-structure

\downarrow \phi

f-structure

\downarrow \sigma

s-strcture

\downarrow \iota

i-structure
```





Problem: the assumed i-structure is not general enough to account for all the Hungarian data (ex. the hocus? difference between the topic types?), it automatically treats question words as foci

Alternative approach: i-structure based on the defining features of the discourse functions and not on the functions themselves

- Prominence
- D-linkedness: denoting a set that the locutor and the interlocutor can partition in the same way (????)



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	¬D-LINKED	D-LINKED
+PROM	focus, QW, hocus	thematic shifter, contrastive topic, QW
-PROM	completive information	background information



• builds on the fundamental properties of i-structure roles, but stays neutral with respect to the "newness" of focus

 groups together the focus, the hocus and non-D-linked question words; the thematic shifter, the contrastive topic and D-linked question words



 does not identify the function of question words with that of focus or topic, but points out their common role in the discourse



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$$\left[\begin{array}{c} \neg \text{ d-linked } \left\{ \text{focus, QW, hocus} \right\} \\ \text{d-linked } \left\{ \text{th shifter, contrastive topic, QW} \right\} \right] \\ \\ -\text{prom } \left[\neg \text{ d-linked } \left\{ \text{completive information} \right\} \\ \text{d-linked } \left\{ \text{background information} \right\} \right] \end{array} \right]$$

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• the above presented sentence types differ in the discourse contexts in which they are uttered

- the definitions of IS notions are also based on the discourse
- \rightarrow formalization of discourse-structure needed:
 - discourse-trees: the nodes are the i-structures of the individual sentences (?)
 - the discourse-trees represent discourse relations between sentences
 - the discourse functions (topic, focus) are derived notions
 - proposal: a possible formalization integrating the discourse relations of SDRT (?), ??





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(17) A **'VONATON 'TEGNAP** sok 'gyerek 'utazott. the train.SUPERESS yestarday a lot of child travel.PST Yesterday, there were a lot of children travelling on the train.



Direct Question-Answer Pair

- (18) a. Q: -Ki hívta meg Marit a bulira? (Who invited Mary to the party?)
 - b. A: -ZOLI hívta meg. (It was ZOLI who invited her).



Non-neutral sentence

- (19) a. Q: **Ki mit** hozott a bulira? (Who brought what to the party?)
 - b. A: János bort, Péter sört, Mari pedig sütiket hozott. (John brought wine, Peter beer and Mary cookies.)



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- discourse-based distinction between 'neutral' and 'non-neutral' sentences in Hungarian
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Analysis

Examples

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