- Three principles that predict when gooden paths will arise in syntactic interpretations of sentences:
- Description of the man he boat that new information should be attached to me simplest syntactic structure possible. Should be attached to me simplest syntactic structure possible. For ex, "The old man me boat", me reader is initially likely to attach me word "the" to me noon "man", creating me to attach me word "the" to me noon "man", creating me to attach structure "The old man the boat", thowever this syntactic structure "The old man the word "the" cannot be structure is not grammatical as the word "the" cannot be structure is not do inhoduce a verb. The correct structure is "The old man saw the boat!
- incorporated into me closure or phrase structure being processed incorporated into me closure or phrase structure being processed as late as possible. For ex "The horse raced past me barn fell" me reader is initially likely to attach the word "fell" to me verb "raced", creating the syntactic structure is to me verb "raced", creating the syntactic structure is horse raced past me barn fell", thowever this structure is horse raced past me word "fell" cannot be used as an not grammatical as me word "fell" cannot be ased as an adverb. The correct structure is "The horse raced past me adverb. The correct structure is "The horse raced past me
- Recency: This Principle states that info that is encountered more recently is likely to be used in the syntactic analysis more recently is likely to be used in the syntactic analysis of a sentence. For ex "The complex houses married and of a sentence. For ex "The complex houses married single soldiers and their families", the neon "soldiers", likely to attack the word "their" to the complex houses married creating the syntactic structure "The complex houses married creating the syntactic structure" the complex this structure and single soldiers their families, to their cannot be used is not grammatical, as the word "their cannot be used is not grammatical, as the word "their cannot be used

to refer soldiers. The correct structure is " The complex houses married and single soldiers, and Meir families live there.

(2) Thematic roles associated with "John broke me window with me hammer"

-> Semantic Roles or Thematic Roles or O-Theory: - refers to me way in which me referent of me noun phrase conhibutes to me stage, action or situation described by the gentence.

It states mut each argument bears one and only one o-role, and each o-role is assigned to one and only one

-> Agent - Initator of an action -> In the sentence "John" is the sentence bus he is me one who performed me action "broke"

-> Theme - me kneme is me entity mut undergoes me actions or is affected by it. In this sentence, me" window" is me theme because it is me obj that is being broken

-> Instrument: - is the tool or means used to Perform me action. Here "hammer" is me instrument because it is what John used to break me window

.. Agent: John

Ineme: the window

Inshument: the hammer

3) Blw the words eat and find which would we expect tobe more effective in selection restriction-based sense disambiguation.

-> The verb "eat" can only take nouns mot refer to edible mings as its objects. So, in me sentence in the dog ate me bone", me noun "bone" can only be interpreted as referring to an edible obj, such as piece of bread etc.

bread etc.

-> The verb "find" has a wider range of selection

restrictions. It can take nouns mut refer to objects, people,

restrictions. It can take nouns mut refer to objects, people,

places and even abstract concepts as its object. So, in

the sentence "The detective found me clue," me noun

me sentence "The detective found me clue," me noun

"clue" can be interpreted as referring to any object mut

"clue" can be interpreted as referring to any object mut

provides a piece of into about a crime.

eat is more likely to be disambiguated correctly using selection restriction -based sense disambiguation bus me set of possible obj's for me verb eat is more me set of possible obj's for me verb eat is more restricted, which makes it easier to sole out incorrect interpretations.

Frame work architecture:Text book - & chapter:- 4
-> 4.4.

(5) Explain:i) Domain knowledge:-

-> Our domain of interes is predictive maintenance in the field of power engineering, more specifically the

maintenance of insulation systems of high-voltage rotating electrical machines.

The findings related to the predictive maintenance process are documented in several forms: the measured values in a relational database; the evaluations of measurements I test in diagnostic reports written in natural lange.

-> In the domain of predictive main tenance, a parties are involved: the service provider c the company that has the know-how to perform diagnostic procedures and the recommend predictive maintenance actions) and the recommend predictive maintenance actions) and the recommend predictive maintenance actions) and the submits to the lustomer the operator of the machine). As part of their customer the operator of the machine) to both to the business agreement, the service provider submits to the customer an official diagnostic report. Such a report customer an official diagnostic report. Such a report customer an official structure template and is written follows a predefined structure template and is written in syntactically correct and parsimonious language.

- -> A report is organized into many sections: summary,
 reason of me inspection, data of me inspected machine,
 reason of me inspection, data of me inspected machine,
 list of performed tests and measurements, evaluations
 list of performed tests and measurements, evaluations
 of measurement and test results, overall assessment g
 of measurement and test results, overall assessment g
 recommendations etc. The goal of project is to mine
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 re
 - ii) knowledge roles:- one abstract names mut refer to me role a domain concepts plays when reasoning to me role a domain concepts plays when reasoning about a knowledge task. Such tasks are, for example about a knowledge task. Such tasks are, for example about a knowledge task, monitoring or planning. When diagnosis, assessment, monitoring or planning. When describing a diagnosis task, knowledge roles like

finding, symptom, fault, parameter or hypo mesis would

1) The calculated insulating resistance values lay

in he safe operating onea

2) Compared to me last examination, lower values for me insulating resistance were ascertained due la dirtiness at me surface.

-> These & sentences are with the same domin concept. Cinsulating resistance)

Text Phrase Tknowledge Role insulating resistance Observed obj. lower values dirtiness at me surfule Symptom: Cause:

knowledge Roles for senkenie

-> The knowledge roles used for annotating cases are abstract constructs in knowledge engineering, are abstract constructs in knowledge engineering, define independently of any anahunal lang constructs.