Specifyinig Patterns of Situation-Evocation with PMA (with Help from MSFA)

What is PMA?

PMA was designed to describe (and visualize) the way the complex semantics of a sentence is integrated out of a set of particular semantics encoded by (sometimes superlexical) "subpatterns" in parallel, distributed fashion.

What is a (sub)pattern?

A subpattern encodes the (co-)argument structure of a predicate in terms of dependency network.

Sample PMA of (5):

(5) Some women keep them constantly in hot water.

The state of PMA updates every time a word (or morpheme) is recognized.

Benefit of PMA

PMA specifies units of situation-evocation effectively: the units are "superlexical," collocational patterns hard to describe in terms of phrase structure. They need to be pattern-based constructs.



1st 2nd 3rd 4th 5th 6th 7th ID SUBJ VERB рl р2 SUBJ[1, SUBJ[1,2 ... keep .. рЗ keep* OBJ 2] 21 SUBJ[1. SUBJ[1,2 COMP[1, COMP[2,2 VERB ... them SUBJ[1 SUBJ[1,2 COMP[1 COMP[2,2 OBJ 2] рб PREP . hot water SUBJ

Phase 2: Identification of collocations associated with situations (aka Constructions) | Realization of a collocational pattern ib (local) segment se

What is MSFA for?

To avoid circularity, the identification of the internal structure of a situation needs to be specified independently of PMA. In our work, it is implemented by MSFA, a FrameNet-inspired framework of semantic analysis/annotation.

Prospect

If we had an inventory of frames at reasonably fine granularities, all sources of metaphoric interpretation could be specified in full detail. It would take a long time to have such an inventory, however.

Remark

Fauconnier-Turner's Blending Theory (BT) is much more like MSFA than PMA. Since MSFA needs PMA to be descriptively adequate enough, it follows that the account by BT **lacks** the set of specifications that PMA provides for MSFA.

