The diversity of inflectional periphrasis in Persian

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PER-GRAM Project DFG (Germany) / ANR (France) http://hpsg.fu-berlin.de/Projects/PerGram/

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Introduction

• General project: PER-GRAM

An implemented HPSG grammar and lexicon for Persian DFG (Germany) / ANR (France) http://hpsg.fu-berlin.de/Projects/PerGram/

- Inflectional periphrasis: the use of multiple words to fill (what can be conceived as) cells in an inflectional paradigm
- The Persian situation is interesting because very different periphrastic constructions are used within a single system
- Typologically different varieties of periphrasis can easily be compared
 - In this talk we focus on descriptive issues and attempt to avoid controversial theoretical assumptions
- Exception: lexicalism
 - Morphology and syntax operate via different rule types

Synthetic conjugation

ТАМ	POSITIVE	NEGATIVE
indicative	mi-xar-i	ne-mi-xar-i
present	UBD-buy.s1-2sg	NEG-UBD-buy.S1-2SG
indicative	xarid-i	na-xarid-i
bounded past	buy.s2-2sg	NEG-buy.s2-2sg
indicative	mi-xarid-i	ne-mi-xarid-i
unbounded past	UBD-buy.s2-2sg	NEG-UBD-buy.S2-2SG
subjunctive	be-xar-i	na-xar-i
present	IRR-buy.s1-2sg	NEG-buy.s1-2sG
imperative	be-xar IRR-buy.s1	na-xar NEG-buy.S1
infinitive	xarid-an buy.s2-INF	na-xarid-an NEG-buy.S2-INF
present participle	xar-ande buy.s1-prs.ptcp	_
past	xarid-e	na-xarid-e
participle	buy.s2-prf.ptCp	NEG-buy.S2-PRF.PTCP

Five periphrastic constructions

- Passive: perfect participle + šodan 'become' In tâblo foruxte mi-šav-ad. this painting sold UNBD-become.s1-3sG 'This painting is sold.'
- (2) 'Perfect': perfect participle + budan 'be'
 - a. Maryam in tâblo=râ foruxte bud. Maryam this painting=DDO sold be.s2.3sg 'Maryam had sold this painting.'
 - b. Maryam in tâblo=râ foruxte=ast. Maryam this painting=DDO sold=be.PRS.3SG 'Maryam has sold this painting.'
- (3) Future: xâstan 'want' + bare past stem Maryam in tâblo=râ xâh-ad foruxt. Maryam this painting=DDO want.s1-3SG sell.s2 'Maryam will sell the painting'
- (4) Progressive: dâštan 'have' + finite clause Maryam dâr-ad in tâblo=râ mi-foruš-ad. Maryam have.PRS-3SG this painting=DDO UNBD-sell.S1-3SG 'Maryam is selling the painting.'

The passive is quasi-analytic

- Inflectional prefixes are carried by the auxiliary.
- (5) In tâblo foruxte ne-mi-šav-ad.
 this painting sold NEG-UNBD-become.S1-3SG
 'This painting is not sold.'
- The relative order is flexible.
- (6) In tâblo šod robude va foruxte.
 this painting become.s2 stolen and sold
 'It is this painting which was stolen and sold'
- Adverbials can intervene between *sodan* and the participle.
- (7) In tâblo foruxte hatman šode ast. this painting sold certainly become be.s1.3sg 'This painting has certainly been sold.'
- The participle can be fronted.
- (8) Foruxte fekr mi-kon-am [tâblo ___šod].
 sold thought UNBD-do.S1-1SG painting become.S2
 'I think that if the painting is sold (...).'

The passive is quasi-analytic

- The syntactic flexibility found in the passive suggests a monoclausal ('clause union') analysis
- In our terms: flat structure with argument composition
 - The auxiliary combines directly with a participle rather than with a phrase
 - The auxiliary inherits the arguments of the participle and rearranges the syntactic functions
 - Thus arguments of the participle are realized as arguments of the auxiliary ('argument composition')



Complex (so called 'perfect') forms

- Five series of forms based on the copula budan
- Only three of the series have a clear synthetic counterpart
- The copula can be a full word or a clitic

simple present	complex present
<i>mi-xar-ad</i>	xarid-e=ast
UNBD-buy.S1-3SG	buy.S2-PRF.PTCP=be.PRS.3SG
simple bounded past	complex bounded past
<i>xarid</i>	xarid-e bud
buy-S2	buy.S2-PRF.PTCP be.S2
simple subjunctive	complex subjunctive
<i>be-xar-ad</i>	xarid-e bâš-ad
IRR-buy.S1-3SG	buy.S2-PRF.PTCP be.SBJV-3SG
	complex unbd. past <i>mi-xarid-e=ast</i> UNBD-buy.S2-PRF.PTCP=be.PRS.3SG
	complex perfect xarid-e bud-e=ast buy.S2-PRF.PTCP be.S2-PRF.PTCP=be.PRST.3SG

Recently morphologized forms

- The complex present and unbounded past, historically based on a clitic copula, are no more periphrastic:
 - All prefixes precede the participle.
- Sâlhâ Maryam be madrase ne-mi-rafte=ast. years Maryam to school NEG-UNBD-gone=be.PRST.3SG
 'For years, Maryam went to school'
 - The participle-auxiliary sequence can not be interrupted.
- (10) *Rafte hatman=ast. left certainly=be.PRST.3SG '(S)he has certainly left.'
 - The participle can not be extracted
- (11) *Mi-rafte sâlhâ Maryam be madrase=ast. UNBD-gone years Maryam to school=be.s1.3SG
 - Morphophonological idiosyncrasies specific to these forms
- (12) a. predicative construction mord'e=ast → mord'ast corpse=be.PRST.3SG 'It is a corpse.'
 b. complex present mord'e=ast → mord'e: died=be.PRST.3SG '(S)he has died.'

Truly periphrastic complex forms

- When the auxiliary is a full word, negation attaches to the participle...
- (13) a. Na-rafte bud. b. *Rafte na-bud. NEG-gone be.PST gone NEG-be.PST '(S)he hadn't left.'
 - ... the sequence is rigidly ordered and can not be interrupted...
- * Maryam Omid=râ bud dide.
 Maryam Omid=DDO be.s2 seen
 (intended) 'Maryam had seen Omid.'
- * Maryam Omid dide hatman bud Maryam Omid seen certainly be.s2 (intended) 'Maryam had certainly seen Omid.'
 - ... but participle extraction is possible
- (16) Foruxte fekr ne-mikonam [____bâš-ad tâblo=râ].
 sold thought NEG-do be.SBJV-3SG painting=DDO
 'I don't think that s/he has sold the painting.'

True periphrases are [PERFECT +]

- The complex bounded past is the perfect form of the past
- (17) Qabl az inke Omid be-res-ad, Maryam birun before from that Omid SBJV-arrive.S1-3SG Maryam out rafte bud. gone be.S2 'Maryam had left (before Omid arrived).'
 - The complex subjunctive is the perfect subjunctive
- (18) a. Fekr mi-kon-am Maryam mariz bâšad. thought UNBD-do.s1-1sg Maryam sick be.sBJV 'I think Maryam is sick.'
 - b. Fekr mi-kon-am Maryam mariz bude bašad.
 thought UNBD-do.S1-1SG Maryam sick been be.SBJV
 'I think Maryam has been sick.'

Indirect evidential forms

- The complex unbounded past has an evidential value (Windfuhr, 1982; Lazard, 1985; Jahani, 2000)
 - Refers to an unbounded past event
 - Signals that the speaker only has indirect evidence for what he or she is asserting
- (19) a. (Banâ bar gofte-ye Omid) Maryam dar sâl-e 1950 in According to-Ez Omid Maryam in year-Ez 1950 this xâne-râ mi-sâxte=ast. house-DDO UNBD-built=be.S1.3SG
 'According to Omid, Maryam would have been building this house in 1950.'
 - Maryam dar sâl-e 1950 in xâne-râ mi-sâxt.
 Maryam in year-EZ 1950 this house-DDO UNBD-built Maryam was building this house in 1950.'

Special cases

- The complex perfect is both perfect and evidential
- (20) (Az qarâr), qabl az inke Omid be-res-ad, apparently before from that Omid SBJV-arrive.S1-3SG, Maryam birun rafte bude ast Maryam out gone been be.S1.3SG 'Apparently, Maryam had left before Omid arrived.'
 - The complex present is either (present) perfect or (bounded past) evidential.
- Maryam tâze reside=ast.
 Maryam new arrived=be.s1.3sg
 'Maryam has just arrived.'
- (22) (Banâ bar gofte-ye Omid) Maryam in xâne-râ dar According to-EZ Omid) Maryam this house-DDO in sâl-e 1950 xaride=ast. year-EZ 1950 bought=be.s1.3sG
 'According to Omid, Maryam bought this house in 1950.'

A paradigm-based analysis

		PAST		
	PRESENT	DIR. EV.	IND. EV.	SUBJUNCTIVE
BOUNDED	***	bounded past	→ complex present	simple
UNBOUNDED	simple present	unbounded past	cpl. unbd. past	subjunctive
PERFECT	complex present	complex bnd. past	complex perfect	complex subjunctive

- Since PERFECT is sometimes expressed synthetically, the last row must be part of the inflectional system.
- We are dealing with true periphrasis: a multi-word construction filling cells in the inflectional paradigm

The future: a single word?

- The two parts look like word parts, not true words
 - The auxiliary is is a present without *mi*-, an otherwise unattested form in contemporary Persian
 - The other form is a bare (past) stem, otherwise occurring only in impersonal constructions
- Negation occurs before the auxiliary
- (23) Maryam Omid=râ na-xâh-ad did. Maryam Omid=DDO NEG-can.S1-3SG see.S2 'Maryam will not see Omid.'
 - The verb sequence be interrupted only by pronominal affixes
- (24) *Maryam Omid=râ xâh-ad hatman did. Maryam Omid=DDO can.S1-3.SG certainly see.S2
- (25) Maryam xâh-ad-aš did. Maryam want.s1-3.sg-paf.3.sg see.s2 'Maryam will see her/him.'

The future: a single word?

- The order is rigid.
- (26) a. *Maryam Omid=râ did xâh-ad Maryam Omid=DDO see.s2 can.s1-3.sg
 - Neither verb can be fronted.
- (27) a. *Xâh-ad Maryam Omid=râ did. can.s1-3.sg Maryam Omid=DD0 see.s2
 - b. *Did Maryam Omid=râ xâh-ad. see.s2 Maryam Omid=DDO can.s1-3.sG
 - The analysis fitting the data most closely is a compounding analysis: S



The progressive: verb + finite clause

- Combines a finite form of the verb *dâštan* 'have' with a second finite verb.
- (28) Maryam dâr-ad in tâblo=râ mi-foruš-ad. Maryam have.PRS-3SG this painting=DDO UNBD-sell.S1-3SG 'Maryam is selling the painting.'
 - Closely resembles a head-finite complement construction.
- (29) Maryam mi-dân-ad (ke) Omid in ketâb=râ be Maryam IPF-know.s1-3.sG that Omid this book=DDO to Sârâ dâd.
 Sara give.s2
 'Maryam knows that Omid gave this book to Sara.'
 - NB: subjects of finite clauses can be controlled in Persian.
- (30) Maryam mi-xâh-ad (ke) be sinemâ be-rav-ad.
 Maryam IPF-want.S1-3.SG (that) to theatre IRR-go.S1-3.SG
 'Maryam wants to go to the movies.'

The progressive: verb + finite clause

- Analysis: the progressive auxiliary
 - takes a subjectless and completentizerless finite clause as complement
 - is defective: only has unbounded aspect forms
 - · identifies its morphosyntactic features with those of its complement



'Maryam is selling this painting.'

Comparing periphrastic constructions

Degrees of analyticity

Quasi-analytic	head-complement structure, some distributional idiosyncrasies	passive, progressive
True periphrasis	limited syntactic flexibility, paradigm integration	complex forms (nonclitic copula)
Quasi-synthetic	no syntactic flexibility two lexemes involved	future
Synthetic combination	ordinary synthetic morphology	complex forms (clitic copula)

Comparing periphrastic constructions

- Criteria from (Haspelmath, 2000; Ackerman and Stump, 2004; Spencer, 2006)
 - Intersectivity: If a construction expresses grammatical properties that are expressed elsewhere in the synthetic paradigm, then it is periphrastic.
 - Noncompositionality: If some features of elements of the construction are in contradiction with features of the construction as a whole, then the construction is periphrastic.
 - Distributed exponence: If exponence of features of the construction is distributed on the elements of the construction, then the construction is periphrastic.
 - Underexhaustivity: If the head of the construction lacks certain forms that other lexemes in the same category have, then the construction is periphrastic.

construction	intersect.	noncomp.	dist. exp.	underexh.
perfect	+	_	+	+
passive	_	+	_	-
progressive	-	_	+/-	+

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