GRAMMATICALIZATION OF DEVERBAL MARKERS: TOWARD A CROSS-LINGUISTIC STUDY IN THE SEMANTIC EXTENSION OF MOTION VERBS¹

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0 Introduction

The development of serial verbs into other grammatical categories has been widely studied, e.g. Matisoff (1991), Heine et al. (1991), Lord (1993), Bisang (1996). In this paper we will take a close look at some motion verbs in Thai, namely, *paj* 'to go', and *maa* 'to come', *càak* 'to leave', *thườŋ* 'to arrive', *ləəj* 'to pass, exceed', and examine directions of their semantic extensions. The presentation is mainly data-oriented, but the cognitive basis of semantic extension will also be discussed.

1 Background and Proposed Patterns

Concerning the functions of serial verbs, Thepkanjana (1986) has stated the following characterizations: (a) complementing the initial verb, which results in the semantic implications of causative, passive, or resultative; (b) indicating direction and aspect; (c) acting as grammatical markers and/or case markers, i.e. coverbs; and (d) indicating purposive and simultaneous actions (for the functional extensions of Thai verbs, also cf. Kolver 1984, Areemit 1986, Bilmes 1995). However, she did not fully discuss the pathways of semantic extension of the verbs we are going to discuss. We start from Bisang (1996: 575), who proposes two pathways of grammaticalization in the domain of verb (a list of abbreviations is given at the end of this paper; CV=causative verb).

These pathways are found across Mainland Southeast Asian languages, but it is also known that they are not strictly unidirectional processes. Rather, the Thai verbs in question still maintain their original meanings and verbal functions while developing into

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grammatical units. Keeping this in mind, we propose two directions of change in (2), which show mapping from prototypical meanings to extended grammatical meanings. Note that the extended meanings are in the hierarchical relations to each other.

We divide the five motion verbs we take up into two groups based on our proposed patterns in (2). In the next section, we will illustrate them with examples taken from narrative data. They are natural spoken discourse by Thai native speakers based on the animated film 'Pingu: The Most Cheerful Penguin in the World'. Also, some examples are taken from two Thai narrative stories as supplementary data.²

2 Two Directions of Grammaticalization

The two directions of grammaticalization in the domain of motion verbs we wish to propose are based on the idea that synchronically observed polyfunctionality patterns should reflect processes of semantic extension (which we call "motivation approach", cf. Ohori 1998). Below are relevant examples:

2.1 *Type I: V -->Vd -->TAM -->COV -->CONJV -->CONV -->LEX*

The first array of functional extensions is summarized in Table 1. Type I features various uses of *paj* and *maa* where the function of a lexical word extends into a grammatical word with such functions as directional verb, tense-aspect-modality marker, coverb, conjunctional verb, and converb. Then through the process of lexicalization, it shifts into a particular meaning which functions as an eventual marker.

Table1: The Chains of Polyfunctionality with paj and maa

Categories	<i>paj</i> 'to go'	maa 'to come'
V	to move away from the	to move towards the
	speaker 's viewpoint	speaker's viewpoint
Vd	away from the speaker's	towards the speaker's
	viewpoint	viewpoint
TAM	pass away	up to the present
	progression	continuity
	imperative sense	imperative sense
	1PL 'let's'	1PL 'let's'
	2SG/PL direction	2SG/PL direction
COV(+NP)	'to' indicating what is	the same as <i>paj</i>

The two Thai narrative stories are:

⁽a) 'taam sadèt klaj bâan' or Retour the route to Europe as visited by King Rama V, Amporn Jirattikorn, Bangkok, Matichon Publisher, 2540 (1997)

⁽b) 'phûtuan' or Friends, prabhatsorn sewikun, Bangkok, dook-yaa Publisher, 4th edition, 2540 (1997)

reached or approached

CONJV purposive the same as *paj*

sequential

CONV³ V paj not applicable

indicating two on-going actions

LEX V paj V maa --> indicating repetition of the action --> shifting to a

particular meaning which denotes the eventuality and functions as an

eventual marker (showing adverb-like function)

(3) *paj*

 $\underline{\mathbf{V}}$

a. khòpkhun mâak phŏm paj koòn

thank you very much I (MASC) GO:V before

ná? kráp

SFM POLITE

'Thank you very much. I have to go now.'

Vd

b. pingu khó? pràtuu hôonnáam léew pòod doon

Pingu knock door toilet CONJ open walk

khâw paj

enter GO:Vd

'Pingu knocked on the door, opened it and walked into the toilet.'

TAM

c. pingu kô? noon kòot túkkata thîi mêe

Pingu CONJ lie hold teddy bear REL M mother

hâj maa con làp paj

give come CONJ sleep GONE:pass away

'Pingu held the teddy bear that his mother had prepared for him until he fell asleep.'

d. léew lôok pengûin kô? dəən paj dəən

then child penguin CONJ walk go walk

paj rŵway rŵway

GO:progesssion continuously

'Then little penguin (Pingu) kept on walking continuously.'

e. paj raw klàp kanthè nawa

<u>let's</u> we return together Nawa

'Nawa, let's go back.'

f. paj khâw hôonnáam dâj léew

direction enter toilet possibility now

'Go to the toilet now.'

The Term CONV (converb) is defined here as a nonfinite verb form whose main function is to mark adverbial subordination (cf. Haspelmath 1995:3).

COV

g. wanníi pen wan thîi pingu cà dəənthaan today COPULA day REL M Pingu will travel paj bâan pâa khondiiaw TO:COV house aunt alone 'Today is the day that Pingu will travel to his aunt's house alone.'

CONJV

h. pingu dəən <u>paj</u> cəə bâan lăŋ nùŋ Pingu walk <u>GO:CONJV</u> find house CLF one 'Pingu walked and then found a house.' (sequential) i. phró? wan níi pingu cà dəənthaaŋ <u>paj</u> hǎa khun pâa because day this Pingu will travel <u>GO:CONJV</u> see HO aunt 'Because Pingu will go to see his aunt today.' (purposive)

CONV

j. raw dəən <u>pai</u> khui <u>pai</u> kanthə we walk <u>GO</u> talk <u>GO</u> together 'Let's walk along and talk together.'

LEX

k. pingu tham taa klîŋ klîŋ paj maa
Pingu make eyes roll roll GO COME
'Pingu rolled his eyes round repetitively.'
l. tèɛ kɔɔn mɛɛ kɔ̂ʔ majdaj sŏncai
from before mother CONJ NEG be interested in
duoŋdaaw rɔɔk tèɛ... (omitted) kruu hâj 4
stars PRT but teacher give
tham raayŋaan... (omitted) paj paj maa maa
do report GO GO COME COME
kɔ̂ʔləəj han maa chɔɔp duu daaw paj dûay
CONJ turn come like look star go too

'I hadn't been interested in the stars before, but after my teacher ordered me to write a report (about the astronomer), at last I began to like the star too.'

(4) *maa*

 $\underline{\mathbf{V}}$

a. kháw <u>maa</u> rooŋrian sǎay thúk wan s/he <u>COME:V</u> school late every day 'S/he comes to school late everyday.'

<u>Vd</u>

b. mii rót khŏn khŏn khàp phàan <u>maa</u> there is car carry thing drive pass <u>COME:Vd</u> 'There is a freight car coming by.'

TAM

 $^{^4\,\,}$ ròok is a particle used after a negative statement to make the sense milder.

c. maa wâaj câawthîi câawthaan kan kòon

<u>COME:TAM</u> to pay respect the guardian spirit of one's land together before

'Let's make the sacrifice to the guardian spirit first.'

d. maa kin aahăan khoon pâa koon

COME: TAM eat food POSSESSIVE aunt before

'Come on and try my dish first.'

COV

e. kháw cà bin <u>maa</u> jîipùn aathít nâa s/he will fly <u>TO:COV</u> Japan week next 'S/he will fly to Japan next week.'

CONJV

f. pingu pìt pràtuu sĭan dan nóon kô?ləəj tùium

Pingu close door noise loud brother CONJ awake

khûn maa róonhâj

ascend **COME:CONJV** cry (sequential)

'As Pingu closed the door loudly, his brother awoke and cried.'

g. sứu khỏon maa fàak dûay ná

buy thing COME:CONJV make gift too PRT

khráp phîi

POLITE elder brother/sister

'Please buy a souvenir for me too.'

The examples in (3) and (4) above illustrate various functions of the two motion verbs. Although the surface forms of these verbs are the same, their functions differ according to the environment in which they occur. Let us take *paj* for instance. We can see that the positions of *paj* in the serial verb constructions (henceforth SVCs) are different. That is, the verb can develop into a Vd when modifying the preceding verb as path or direction markers (cf. (3 and 4b)). In (3 and 4g), it can take a prepositional argument and function as a COV. Further, it functions as a CONJV, i.e. it links the following action to the preceding one, expressing such relations as purpose and temporal sequence, while converbs express the simultaneity of two actions. Moreover, we can see that both *paj* and *maa* can denote the sense of repetition that leads to a particular meaning, functioning as a near-lexicalized eventual marker.

2.2. *Type II: V* --> *COV* --> *CLM* (*LEX*)

This type of grammaticalization pattern has three typical examples, namely *càak* 'to leave', *thửny* 'to arrive', and *ləəj* 'to pass, exceed'. These tend to be natural choices, since there are corresponding usages of motion verbs in other languages, for example, Vietnamese (cf. *dến* 'to arrive').⁵

⁵ The similar phenomenon can be seen in Vietnamese too. The examples of *dên* 'to arrive' are cited below (based on Nguyen 1979):

COV --> ALLATIVE: Xe chạy đến ga mới đổ khách.

^{&#}x27;The bus will not discharge its passengers until it arrives at the station'

TEMPORAL: đọc báo đến hai giơ sáng

^{&#}x27;to read newspaper until 2 am.'

Table 2: the chain of polyfunctionality with càak

càak 'to leave' Categories to depart from a reference point V **COV** ablative 'since' agent instrument (tool, force, material, means) CLM (LEX) cause and reason ntûaan càak 'because' nôsk càak 'except for' lăn càak 'after' càak nán 'after that'

(5) càak

 $\underline{\mathbf{V}}$

a. kháw càak bâan kòət paj tâŋtèɛ jaŋ dèk

s/he LEAVE:V home to be born go since still child

'S/he left his (her) hometown when s/he was still a child.'

COV

b. toonnán kô? mii khǒon tòk càak rót prajsanii

at that time CONJ there is thing fall FROM:COV car post

'At that time there was something falling from the post-car.'

c. càak wanníi paj túkuahan cà klàp kuuun

FROM:COV today go everything will be back return

maa muuuan dəəm

come like before

'From now on, everything will be alright as before.'

d. léew pingu kô? dâj khỏon kin càak

then Pingu CONJ receive thing eat AGENT:COV

khun pâa khâaŋ bâan

HO aunt side house

'Then Pingu received some food from the neighbouring aunt.'

e. lûuk sâap càak kaan àan nănsŭiuphim

I know BY MEANS:COV NOM read newspaper

'I know it by reading the newspaper.'

FOCUS PARTICLE: tiêu đến 20 đồng

'to spend as much as twenty dong'

DEGREE MARKER: đọc đến rức đầu

'to read so much as to have a headache'

EVEN: đến (cả) ông, nó cũng không sợ.

'He is not afraid even of you.'

TERMINAL: biết đến 'to know about/of'; nghĩ đến 'to think about/of';

nói đến 'to remember'

f. lûuk sứu khỏoŋ phûuak níi càak ŋəən sǐnsòot

I buy thing NUMBER this **INSTRUMENT:COV** money betrothal

'I bought these things with the betrothal money.'

g. phró? nùuuay <u>càak</u> kaan dəənthaaŋ

because be tired CAUSE:COV NOM travel

'Because (Pingu) is tired due to his travelling.'

CLM

c. nûan càak sòn sĭan dan kô?ləəj tham hâj

BECAUSE (OF) send noise loud CONJ make/do give

nóoŋ từuun

brother awake

'Because of a loud noise, his brother was awoken.'

Next, we will list up the interconnection between various functions of *thung* 'to arrive' as shown below.

Table 3: The Chain of Polyfunctionality with thin

<u>Categories</u>	thửn 'to arrive'
V	to get to a place
COMPLEMENT V	indicating the achievement
COV	allative
	'until'
	recipient
	terminal
FOCUS MARKER	to emphasize the amount
DEGREE MARKER	to indicate degree of an action
	or state by preceding the
	modificational phrase
	thưng kàp; thưng khanàat
PREVERB	a colloquiallism of <i>cum</i> ,
	introducing the resultant
	statement. It can be used as
	a clause-linkage marker,too.
CLM (LEX)	'even' 6
	concessive
	thửng mée wâa; thứng jàang raj
	thừng krànánkô? taam

(6) *thửiŋ*

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Subordinate clause Main clause

EVEN: thửŋ (pen) [NORM] won't do what one is expected to do.

CONCESSIVE: thửŋ [EXPECTATION] will do what one is not expected to do.

⁶ The difference between EVEN and CONCESSIVE of *thum* can be briefed as follows:

 $\underline{\mathbf{V}}$

a. pingu tron paj rŵwayrŵway naj thîisùt kô? Pingu walk-straight go keep on in the end CONJ thừn bâan khun pâa ARRIVE:V house HO aunt

'Pingu kept on going straight ahead, and at last (he) arrived at his aunt's house.'

COMPLEMENT V

b. lòon ùthaan jàan khít mâj thửn she exclaim like think NEG <u>ARRIVE:COMP</u> 'She exclaimed surprisingly.'

COV

c. khun luŋ khàp maa thừn thaaŋ yêɛk
HO uncle drive come ALLATIVE:COV way separate
'The uncle drove along until the crossroad.'
d. thúk thii hěn yùu thừn hâathûm sŏɔŋyaam
every time see be UNTIL:COV 11 pm 12 pm
'I usually see him here until 11 or 12 pm.'
e. fàak khwaam khítthừn thừn khun pâa dûaj
deposit NOM regards RECIPIENT:COV HO aunt too
'(Please) give my regards to your aunt.'
f. mữuua thorasàp paj thừn bâan lɛ́ɛw
when telephone go TERMINAL:COV house finish
'When (Pingu's aunt) telephoned (Pingu's) house,...'

FOCUS MARKER

g. kaan dəənthaan kin weelaa thun cèt duwan NOM travel eat time EMPHASIS 7 months 'The travel took times as much as 7 months.'

DEGREE MARKER

h. kháw kròot mâak thừnkàp phûut mâj bok he be angry much <u>DEGREE</u> speak NEG come out 'He was so angry that he could not speak.'

PREVERB

i. thammaj thửn dâj khít wâa phûuak phîi why PREVERB possibility think say NUMBER this pen nákmuay lâ? khráp be boxer particle POLITE 'Why do you think we are the boxers?' j. phŏm paj thîi borisàt kɔɔn lɛ́ɛw thuňn I (MASC) go to company first then PREVERB maa thîinîi come here 'I went to the company first, then came here.'

CLM

k. thừn pen khon kèc kháw kô? mâj lúk

<u>EVEN IF:CLM</u> be person old s/he CONJ NEG get up hâj nâŋ ('even')

give sit

'He never offer the seat to anyone, even to old people.'

1. thừn jan dèk kháw kô? mii khwaam

THOUGH:CLM still child s/he CONJ have NOM

rápphìtchôop (concessive)

responsibility

'Though he is still a child, he has a sense of responsibility.'

The last member of this type is *ləəj* 'to pass, exceed'. This item also shows its polyfunctionality in line with the other two items illustrated above.

Table 4: The Chain of Polyfunctionality with looj

Categories	<i>ləəj</i> 'to pass, exceed'
V	to pass or exceed the
	reference point
Vd	past, through
COV	excessive
	past the reference time
POSTVERB	manner adverbial
	'immediately'
EMPHASIS MARKER	to emphasize the degree of an
	action or state determined by
	the speaker's attitude.
CLM	showing the resultant state or
	the following action

(7) *ləəj*

 $\underline{\mathbf{V}}$

a. thâa ləəj baanpuu paj léew cà hǎa

if PASS:V Bangpuu go PERFECT will find

ráan aahǎan jâak dûay

shop food difficult too

'If (we) go beyond Bangpuu, it 's difficult to find the food shop.'

<u>Vd</u>

b. phòm moon <u>looj</u> paj thîi koosŏn

I (MASC) look PAST:Vd go at Koson

'I looked at Koson.'

COV

c. rótmee léen looj pâaj

bus run <u>PAST:COV</u> bus stop 'The bus ran past the bus stop.'

POSTVERB

d. pâa bòok pingu wâa "kin <u>looj</u> câ" aunt tell Pingu say eat <u>IMMEDIATELY</u> POLITE 'His aunt told Pingu that "Please have it (at once)."

EMPHASIS MARKER

e. Hûh! jaŋ cháaw yùu <u>ləəj</u> interjection still morning be <u>EMPHASIS MARKER</u> 'Huh! It's too early to get up.'

CLM

f. pingu thán nùnuay lế? hǐw loọj kin mòt
Pingu both be tired and be hungry PASS:CLM eat all
'Pingu was tired and hungry, so he ate everything.'
g. pingu kô? làp paj léɛw pâa loọj pìt
Pingu CONJ sleep go PERFECT aunt THEN:CLM switch off
faj hâj noon há?
light give lie POLITE
'After Pingu went asleep, his aunt then switched off the light for him.'

Considering examples (5) to (7) together with (3) to (4) exemplified earlier, we can safely state that these verbs have extended their semantics from lexical words to grammatical words and developed polyfunctionality following the course of extension as in other serial verb languages.

In the next section, we try to explicate differences in the functions of these verbs as lexical verbs and grammatical markers by looking at their syntactic properties based on the analysis of *càak* and *thtun*.

3 Some Evidence from the Syntactic Side

The grammaticalized verbs exemplified in the preceding section do not appear with agentoriented adverbials and take neither an obligation marker nor a negation marker, whereas fully lexical verbs do. These points are borne out by the following tests. First let us start with an obligation marker.

(8) a. kháw tôn càak bâan kènt

s/he OBLIG LEAVE:V home to be born

'S/he had to leave her/his hometown.'

b.*pingu dâjráp khanŏmpan tôɔŋ càak khon khâaŋ thaan

Pingu receive bread OBLIG FROM:COV person wayside

'Pingu received some bread *must from the wayside people.'

c.*tôɔŋ càak kaan thîi kháw khajǎn

OBLIG BECAUSE NOM REL M s/he diligent

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kháw cuŋ sòop dâj
s/he CONJ test POSSIBILITY
'*Must because of his/her diligence, s/he can pass the exam.'
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Second, the contrast can be attested by using the subject-oriented adverbials such as *rew* (early; quickly; fast) and the postverbal NP ellipsis rule.

a. kháw thừn bâan rew s/he ARRIVE:V house early
'S/he arrived her/his house early.'
b. *fàak khwaam khítthừn thừn khun paa rew deposit NOM regards TO:COV HO aunt quickly
'Please give my regards to your aunt *quickly.'
c. *thừn rew jan dèk kháw kô? mii khwaam THOUGH quickly still child s/he CONJ have NOM rápphìtchôop responsibility
'Though *early/quickly s/he is still a child, s/he has the sense of responsibility.'

These examples show a clear-cut distinction in the words *càak* and *thtun* between lexical uses as in (8a) and (9a) and deverbal uses as in (8b, c) and (9b, c). Third, the same point can be made with regard to the negative marker *mâi*.

(10) a. kháw jan mâj thừn (bâan) s/he yet NEG ARRIVE:V (house)
'S/he has not arrived yet.'
b.*kháw thoorasàp mâj thừn phứnuan s/he phone NEG TO:COV friend
'S/he phoned *not to her/his friend.'
c.*mâj thừn jan dèk kháw kô? mii khwaam
NEG THOUGH still child s/he CONJ have NOM
rápphìtchôop
responsibility
'*Not though s/he is a child, s/he has the sense of responsibility.'

From these pieces of evidence, we may assume that the two patterns of grammaticalization of motion verbs which we proposed earlier are well-established.

4 Crosslinguistic Validity of Image Schemas

The motivation for these motion verbs to develop polyfunctionality can be attributed to the similarity of schematic meanings. That is, this phenomenon can be understood in terms of the 'gestalt preserving' nature of semantic extension (cf. Ohori 1995: 703, who discusses Japanese *kara* 'from/since' and other case marker-clause linkage marker parallels; see Talmy 1988; Sweetser 1988).⁷ For a recent argument that image schematic meanings are

⁷ The word 'polyfunctionality' adopted here is used to mean that a lexical word in the isolating languages, such as Thai, Vietnamese, Cambodian etc., commonly has a versatile usage without

not strictly preserved, see Matsumoto (1998) on Japanese o motte and ni yotte.

Now, let us draw out the image schemas of *càak* 'to leave', *thtăŋ* 'to arrive', and *ləəj* 'to pass, exceed'. Based on our analysis above, these three verbs seem to preserve their basic image schemas in accordance with the general tendency. But at the same time, we find some aspects of the image schemas are modified to suit the communicative needs. The basic patterns of extension are:

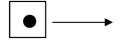
(11)		SOURCE	GOAL	PATH
	SPATIAL	ablative	allative	excessive
	TEMPORAL	since	until	past
	ANIMATE	agent	recipient	-
	LOGICAL	cause/reason	concessive	resultative

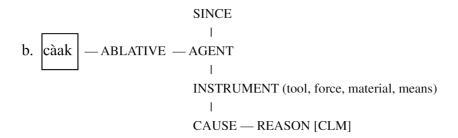
Ləəj can take ANIMATE ARGUMENT for PATH as well, but there is no difference in function whether ləəj takes ANIMATE or SPATIAL as its argument.

(12) rótmee léεn ləəj pâaj/Mary bus run exceed bus-stop/Mary 'The bus passed the bus-stop/Mary'

The image schemas of *càak* 'to leave', *thủn* 'to arrive', and *loạj* 'to pass; exceed', with illustrations of conceptual networks, are given in (13) through (15) respectively.

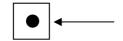
(13) a. càak 'to leave'

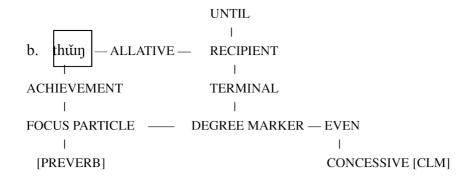




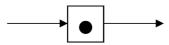
any overt morphological marking. Therefore, the lexicon has no clear-cut boundaries in grammatical categories, and yields a chain of interlinking loop as its meaning slightly changes due to the practical use. Note that the notion of polyfunctionality is different from polysemy in the sense that the semantic net or meaning chains of the so-called polyfunctional word are associated with various grammatical categories, whereas the various meanings of a polysemous word are connected with one grammatical category alone.

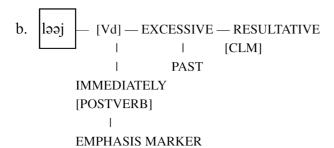
(14) a. thun 'to arrive'





(15) a. ləəj 'to pass, exceed'





5 General Remarks

Based on the above schemas, a number of interesting observations arise, some of which are given below.

First, does the same happen in other languages as well? Given the generality of image schemas, we would say that may be true in a lot of cases, but there are certain language-specific differences. For example, the use of the source marker to encode agents is limited in Thai. In a well-developed case marking language such as Japanese, it is possible to mark the agent of speech event verbs with *kara* 'from', but this is not the case in Thai.

- (16) watasi-kara kodomo-ni chuui si-masu I-FROM kid-DATIVE complain do-POLITE 'I will advise the kids.'
- (17) *càak chán cà dùu dèk FROM I will scold kid

It would be interesting to see how broad the coverage of the adpositional uses of motion verbs can be in non-case marking languages.

Secondly, the concessive use of *thuny* 'to arrive' seems at first surprising. One may expect, for example, that it would mark result. We are not yet certain why this is the case, but one possibility is that a concessive interpretation implicitly assumes some scale. The form *thuny* in its deverbal use may mark an intermediate goal, and there may be a further, implicit goal which is the true endpoint. See the schema in (18).

(18) X does something or is at state Y with a further reference point of Y'

In this connection, it seems interesting to see origins of concessive markers in typologically similar languages.

Finally, the present study is expected to promote our understanding of serial verbs (cf. Lefebvre 1991) and contribute to the typology of event integration (cf. Talmy 1991). According to Talmy's study, there are two basic types of language, namely verb-framed languages, where the notion of path is incorporated in the verb (as Spanish), and satelliteframed languages, where path is realized as a satellite, the verb incorporated manner (as in English). Talmy also notes that Japanese is a verb-framed language while Chinese a satellite-framed language. Then, what about other East Asian languages? Kessakul (1998) shows that Thai has both properties, though it is perhaps closer to a verb-framed language. In fact, this distinction seems best understood as a typological continuum. Li (1997) has argued that Modern-Day Chinese has changed from a verb-framed language into a satellite-framed language over the past millennium (and maybe more), showing that the verb-complement constructions encode path, state change, and realization. Although verbs we have taken up retain lexicality in Thai, this may not always be the case in other languages. For example, Chinese shàng, 'to go up' is used as a main lexical verb less frequently than its counterpart in Thai. Further inquiry into the details of event integration from the viewpoint of areal typology, including the study of serial verbs as a site of typological change, is expected in the near future.

Abbreviations

CLF classifier

CLM clause-linkage marker

COMP complement conjunction

CONJV conjunctional verb

CONV converb COV coverb

CV causative verb
HO honorific
LEX lexicalization
MASC masculine
NEG negative
NOM nominalizer

OBLIG obligation PRT particle

REL M relative marker RES resultative verb

SFM sentence-final marker TAM tense-aspect-modality

Vd directional verb

1SG/PL 1st person singular/plural 2SG/PL 2nd person singular/plural

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