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The Multifunctionality of a Morpheme Proposes its Morphosyntactic Features and their Specifications: Feature Matrix

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SUBMISSION TRACK	A B S T R A C T
Recieved: September 08, 2020 Final Revision: November 20, 2020 Available Online: December 10, 2020	Multifunctionality is a cross linguistic phenomenon. It refers to the linguistic capability of a linguistic form to manifest itself in different syntactic structures that result in different syntactic functions. Treating
Keyword	multifunctionality from a generative perspective, the paper focuses on the
Arabic, feature matrix, multifunctionality, restrictedness, specifications	different functions of the Hijazi Arabic (HA) <i>maa</i> and contributes to the HA literature by describing these different functions and claiming that they
Correspondence	are not instances of homonymy, but of multifunctionality. Those different functions are governed by the different syntactic environments that <i>ma</i> occurs in. Its occurrence in multiple syntactic environments suggests th <i>maa</i> has a feature matrix that includes its morphosyntactic features and the specifications that express the appropriate use and interpretation of a give structure. The findings show that <i>maa</i> may function as a negative particl emphatic particle, relative pronoun, infinitival particle, conditional particl interrogative particle, exclamative particle and a particle of inclusion. These uses differ in their syntactic flexibility and rigidity (restrictedness Although more than one function can incorporate to express multip senses, the salient point about the different functions of <i>maa</i> is that there no semantic or syntactic ambiguity between its functions.
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I. INTRODUCTION

The research on HA has been attracting several linguists over the last two decades. However, while some of the uses of *maa* have been abundantly investigated by some linguists including Sieny (1978), Feghali (1991), and Al Zahrani (2008, 2013, 2014a, 2014b), other uses, to the best of the author's knowledge, have gained little or even no attention at all. Therefore, the current paper aims at describing those other uses and functions of *maa*. The significance of this study lies in the fact that it enriches the research on HA by describing the different functions of the HA *maa* and, furthermore, fills in the gap of the literature by providing fertile linguistic grounds for future morphosyntactic and semantic investigations of each function of *maa*.

The present paper uses multifunctionality to refer

to the property of the HA particle *maa* to appear in different syntactic structures that result in different functions and different semantic interpretations. Following Lieber's (2015) division of the words into closed/functional and open/contentive classes, *maa* is a lexical functional morpheme whose different functions, as argued in sections II and III, are not instances of homonymy, but of multifunctionality.

Multifunctionality is a cross-linguistic phenomenon showing "the ability of one linguistic element, such as a word or a morpheme, to surface in various syntactic environments and adopt a different function in each of these environments" (Hachem 2015:1). To clarify, the different uses and senses of some English functional morphemes including *has, that, it,* and *there* exhibit multifunctionality, as shown in (1-3), adopted from Hachem (2015:49).

- 1. a. Marta has a car.
 - b. Marta has driven a car.
- 2. a. Marta drove **that** car.
 - b. I saw that Marta was driving.
- 3. a. I saw **it**.
 - b. It seems to be sunny outside.

The set of examples in (1a-b) presents the two different uses of has as a full verb (1a) and as an auxiliary (1b). Examples (2a-b) show the element that serving as a deictic/demonstrative element in (2a) and as a complementizer in (2b). The examples in (3) present more cases of multifunctionality where the subject pronoun it can serve as a subject pronoun (3a) or an expletive (3b). While the expletive pronoun is non referential, the subject pronoun is referential (Radford 2009:46). Evidence for this claim about the subject pronoun springs from Radford's (2009:46) claim that the English expletive pronouns such as there and it carry no intrinsic meaning but are syntactically required to satisfy the grammar of the language. For instance, in (3b) the finite verb seems requires the presence of the subject pronoun it. In this case, it is an expletive pronoun and not referential as it cannot be questioned by any appropriate interrogatives (Cf. *what does seem to be sunny outside? it!). Contrary, the subject pronoun can be questioned by the appropriate interrogative (Cf. what did I/you see? it). Note that there is no semantic ambiguity found in the different uses of any of the English elements above.

Moving from English to German and Dutch languages, other cases of multifunctionality are present. Hachem (2015:2) presents multiple uses of what she calls d-items and w-Items in German and Dutch. These items have multiple functions as: wh-words, pronouns, interrogative pronouns, demonstrative pronouns, exclamative markers and determiners. Some of these uses are shown in the set of examples in (4a-d), adopted from Hachem (2015:2-3).

- 4. a. *Was liegt da auf dem Boden?* What lies there on the ground? 'What is lying on the ground over there?'
 - b. *Ich habe was* Interessantes gelesen. I have what interesting read 'I read something interesting.'

c. *Ich kaufe, was mir gefällt.* I buy what me pleases 'I buy what I like.'

d. *Was* ein sonniger Tag! what a sunny day 'What a sunny day!'

The German morpheme *was* may function as an interrogative pronoun (4a), an indefinite pronoun (4b), a relative pronoun in free relative clauses (4c), or as an exclamative marker (4d). Notice that the different functions of *was* are in complementary distribution, so there is no ambiguity between these functions as claimed by Hachem (2015).

Shifting to Arabic, the realization of multiple uses of a morpheme is also witnessed. For instance, the examples in (5a-c) present different functions of the Arabic morpheme *wa* as an oath particle (first instance in 5a), as a coordinator particle with an "additive function" (Ryding 2005:409) connecting items of a list, words or clauses (second and third instances in 5a), as an accompaniment particle (5b), and as a circumstantial particle (5c).

5.	a. <i>wa-Allahi laqad ja:-a Mo<u>h</u>ammad-un</i> CONJ <i>-Allah</i> ASP PF.come-3SG.M <i>Mohammad</i> -NOM <i>wa Ali-un wa A<u>h</u>mad</i> CONJ <i>Ali</i> -NOM CONJ <i>Ahmad</i> 'I swear by Allah that Mohammad, Ali and Ahmad have already come.'
	b. <i>sir-na:</i> wa <u>d</u> <i>aw?-u al-qamar-i</i> PF.walk-1PL CONJ light-NOM D-moon-GEN 'We walk with (the accompaniment of) the moonlight.'
	c. <i>ja:-a</i> wa <i>huwa ya-<u>dh</u>ak-u</i> PF.come-3SG.M CONJ PRN-3SG.M.NOM IMPF.3SG.M-laugh-IND ' <i>H</i> e came (in the state of/ while) laughing.'

Other Arabic multifunctional particles include the Classical Arabic (CA) *maa* that can function as a negative, interrogative, relative, nominalizing, durative, exclamatory, indefinite, conditional and redundant particle. The multiple uses and examples of the CA *maa* are found in the studies of Wehr and Cowan (1979) and Abboud and McCarus (1983). While this paper considers the different functions of the HA *maa*, it does not present its similarities and differences with the CA *maa* nor does it include the CA *maa* in the discussion as this will take us too far afield.

The most important points drawn from the set of examples presented in (1) to (5) are twofold. First, it shows the presence of the linguistic phenomenon of multifunctionality across some languages.

Second, it supports Hachem's (2015) claim that the different functions of a multifunctional morpheme are in complementary distribution. Put differently, one can argue that there is no ambiguity between the different functions of a multifunctional element in one syntactic structure. To make this more practical, one can notice that there is no ambiguity between the different functions of the morpheme wa in (5) above. That is, wa in (5b-c) cannot show the additive or the oath uses of wa. Also, it cannot be circumstantial or for accompaniment purposes in (5a). The syntactic environment where the morpheme wa occurs is what determines its appropriate interpretation. Likewise, the appropriate interpretations of the instances of the morphemes that (2a-b) and it (3a-b) are all governed by the syntactic distribution and environment of each particle. Ultimately, it is the structural environment that makes the multifunctional element function syntactically and semantically in a particular way. The remaining parts of the paper include Section II that discusses the approaches to multifunctionality; Section III and its subsequent sections (3.1 through 3.7) that form the main descriptive part of the paper exploring maa and its functions. Section IV argues that the different functions of maa propose a feature matrix containing its morphosyntactic features and their specifications, and Section V concludes the paper.

II. THEORETICAL BACKGROUND ON MULTIFUNCTIONALITY

There are two main approaches to multifunctionality in the literature. It can be studied from a lexicalist perspective or a generative perspective. This paper uses the latter perspective but it also shows why the lexicalist approach is not favoured.

The lexicalist approach, also known as lexicalist hypothesis and lexical hypothesis, is a traditional approach attributed to Chomsky (1970). It has a number of supporters and defenders (including Arnott 1970; Jackendoff 1972; Ackema and Neeleman 2004; Williams 2007; Newmeyer 2009; Müller and Wechsler 2014, to mention a few). It basically argues that "the system of grammar that assembles words is separate from the system of grammar that assembles phrases out of words" (Bruening 2018:1). This entails that there are two separate systems: the phrasal system and the word system. This division results in that "the phrasal

system has no access to subword units and, in addition, the output of the phrasal system never forms the input to the word system" (Bruening 2018:1).

With respect to multifunctionality, the lexicalist approach argues that the cases of multifunctionality of a morpheme are reflexives of homonymy (Hachem 2015:20-21). Given this argument, multifunctionality then covers all linguistic elements that have the same sounds but express different meanings. A typical example of this homonymous relation is the forms bank 'a financial institution' and bank 'the edge of a stream' (Kreidler 2014:52) where both share the same sounds (and spelling) but express different interpretations. However, this approach cannot be without problems. One of the problems that lexicalists face with homonymy is the fact that some forms have a wide range of meanings so that semanticists have to decide whether the meanings show cases of polysemy or homonymy (Kreidler 2014:52-53).

With this being said, multifunctionality is different from homonymy. The underlying point about homonymy is that the same forms that share the same sounds but express different meanings can occur in the same syntactic environment. One consequence of this is that lexical ambiguity arises between the two potential interpretations as shown in (6).

6. 'The bank you are looking for is there'.

In (6) the form bank could refer to 'the bank of the river' or 'the financial institution', so the semantic/ lexical ambiguity is present with homonymous forms occurring in one syntactic structure. These semantic issues are absent in the linguistic phenomenon of multifunctionality (Hachem 2015:21). What matters in multifunctionality is the syntactic environment in which the functional elements occur, but never their content. Hachem argues that if we consider the multifunctional elements of one language as homonymous elements we will be inclined to conclude that the crosslinguistic phenomenon of multifunctionality shows coincidence by accidently attributing different functions to a number of elements sharing the same sounds. In line with this argument, Wiltschko (2014:93) holds that when we see one form in different syntactic configurations with different functions we should take for granted that it is the same element and that its different functions have been acquired by its presence in the respective syntactic structures. This view rejects the proposal that multifunctionality shows cases of homonymy. The advocates of this rejection are the majority of linguists (including Lieber 1988, 1992; Halle & Marantz 1993; Ken and Keyser 1993; Marantz 1997; Bruening 2014, 2018, to mention a few).

Supporters of multifunctionality as a syntactically driven linguistic phenomenon argue that the grammar of language does not require two separate systems, but only one. The requirement of one component system is against the two systems of the lexicalist approach, i.e., the phrasal system and the word system. Having only one system features simplicity because it is simpler for a model of grammar to have only one system than two; so this explains why Bruening (2018:1) claims that the lexicalist hypothesis of having two grammar components is "both wrong and superfluous". Following this line of argument, the lexicalist approach to multifunctionality is not adopted in this paper.

From a generative perspective, multifunctionality has been treated, not as cases of homonymy, but as feature matrices of elements. Put differently, a multifunctional element has a feature matrix and the syntactic behaviour of the element is determined by its feature matrix that contains its morphosyntactic features and their specifications (Hachem 2015:26). Following Hachem (2015), the present paper argues in Section IV that the different functions of the HA maa form a feature matrix, which determines its appropriate syntactic behaviour and its appropriate semantic interpretation. The feature matrix discussion in section V shows an important finding in regard to the more flexible use of maa, which can be considered the main use of this HA morpheme.

The feature matrix hypothesis is supported by several linguist (including Chomsky 2001; Barbiers 2009; Barbiers, Koeneman, and Lekakou 2010; Barbiers 2013; Boef 2013, to mention a few). The following section lists the multiple uses of the HA *maa* and presents the studies that have investigated some of those uses.

III. MULTIFUNCTIONALITY OF MAA

The main argument of this paper is that the HA *maa* is characterized by having different functions and uses that deliver different senses and interpretations that can only be derived from the different syntactic environments that *maa* surfaces in. Apart from its use as negator, the paper glosses *maa* in all other uses as PRT: particle. The reason behind this gloss is that I follow Morris' (1969:90) definition of particles as a member of a class of forms that have no inflection. Thus, the HA *maa* is a particle that does not inflect for any of the grammatical categories of tense, aspect, person, number, or gender... etc. The eight multiple uses of the HA *maa* are the following.

- A negative particle
- An emphatic particle
- A relative pronoun
- An infinitival particle
- A conditional particle
- An interrogative particle
- An exclamative particle
- A particle of inclusion

The HA maa has been investigated as a negative particle as can be seen in the studies of some linguists (including Sieny 1978; Feghali 1991; Al Zahrani 2008, 2013, 2014a, 2014b; Eifan 2017; Al Zahrani and Alzahrani 2019). In its function as a negative particle, Al Zahrani (2008) has deeply investigated its morphological impact on its following clauses. Furthermore, Al Zahrani (2013) has explored how it interacts with modal particles. Also, in another study, he has shown its selectional properties when scoping over nominal clauses (Al Zahrani 2014a). In like fashion, Al Zahrani and Alzahrani (2019) have presented the behaviour of maa when scoping over verbal clauses. To the best of the author's knowledge, however, the other seven functions of the HA maa listed above, have not been investigated, explored or even presented in the literature as different functions of maa. Having been working on HA for around fifteen years, I have not come across any linguistic work that marks the HA maa as an emphatic, relative, infinitival, conditional, interrogative, exclamative or inclusive particle. Hence, this paper contributes to the existing HA literature by presenting these multiple uses, their examples, and their senses and interpretations along with some brief syntactic overview of these uses. This should create a solid base for future research to thoroughly investigate the syntactic properties of each use, its placement in the hierarchy, and its interaction with other functional categories.

Apart from the negative *maa* that has been explored in the literature (see Section IV), the next subsequent sections explore the other seven functions of the HA *maa* and the different senses and interpretations derived from each use. The findings show that, unlike the negative function of *maa*, the other functions demonstrate highly restricted syntactic distribution. Thus, they differ from the negative *maa* whose literature, briefly summarized in Section IV, demonstrates that its occurrence as a negative element is more flexible and covers a wide range of different clausal structures when compared to the other seven functions of *maa*.

3.1 Maa functioning as an emphatic particle

Interestingly enough, the morpheme *maa* that can be used to negate a proposition in a clause, can also be used in a restricted clausal structure headed by an adverb of frequency to emphasise the proposition of the clause. Consider the examples in (7) and (8).

7.	a. <i>maa a-ktub fi al-faisbok</i> NEG IMPF.1SG-write P D-facebook 'I do not write on Facebook.'
	b. <i>na:deran maa a-ktub fi al-faisbok</i> rare PRT IMPF.1SG-write P D-facebook 'It is rare that I write on Facebook.'
8.	a. <i>maa a-shu:f-ak fi al-maktabah</i> NEG IMPF.1SG-see-2SG.M.ACC P D-library 'I do not see you in the library.'
	b. <i>da:eman maa a-shu:f-ak fi almaktabah</i> always PRT IMPF.1SG-see-2SG.M.ACC P D-library 'It is always that I see you in the library.'

The examples in (7a) and (8a) present the negative *maa* negating the whole propositions. The absence of the negative *maa* in (7a) and (8a) makes the two clauses affirmative. Contrary, *maa* functions differently in examples (7b) and (8b) as it respectively emphasizes the propositions of 'rare writing on Facebook' and 'always seeing the addressee in the library'. Using Barbiers et al's (2010:7) expression of syntactic rigidity and flexibly, (7b) and (8b) show a rigid (inflexible) structure in which the presence of *maa* to interpret emphasis is highly restricted to its occurrence after an adverb of frequency. Changing its position and its syntactic environment yields other functions or ungrammatical clauses. Put differently, the

emphatic maa must always be headed by an adverb of frequency such as da:eman 'always', ka:the:ran, 'oftentimes/frequently' gha:leban 'often', and na:deran 'rarely'. Notice that the absence of the particle maa in the (b) examples makes the sentences lack emphasis thought they should still express declarative affirmative clauses. This supports the claim above (Section III) that the syntactic environment that surrounds the functional element is what makes the element function in a particular way and interpreted appropriately. This claim can be further supported by the particle maa when functioning as a relative pronoun as in the next sub-heading.

3.2 Maa functioning as a relative pronoun

The particle *maa* can also function in a way similar to the HA definite relative pronoun *illi* 'that'. This function is rigidly restricted to suppletive clauses, prayers and wishes. Consider the examples in (9).

9.	a. <i>Allah ya^cti:-k maa ti-tmanna</i> Allah IMPF.give-2SG.M PRT IMPF.2SG.M-hope				
	'May Allah give you what you hope for!'				
	b. ya: rabb ti <u>h</u> faTH-ha min				
	O Lord IMPF.protect-3SG.F P				
	maa t-kha:f				
	PRT IMPF.3SG.F-get.scared				
	'O' Allah, protect her from what she is afraid of!'				
	c. ja:-k maa ti-tmanna				
	PF.come-2SG.M PRT IMPF.2SG.M-hope				
	'You have got what you hope for.'				

In (9a-b) the particle maa occurs in suppletive clauses where the speaker is invoking Allah for giving his addressee what the addressee is hoping for (9a) and protecting his addressee from what the addressee is afraid of (9b). Example (9c) shows the occurrence of maa for wishing purposes. Again, the restricted syntactic environment of the particle maa is what has resulted in this function of maa and achieved such interpretations. Unlike the use of the negative maa in (7a) and (8a) whose absence may change the meaning of the clauses to non-emphatic, the absence of maa in (9a-c) renders the clauses ungrammatical. Notice that in these examples the particle maa can be replaced by the HA relative pronoun *illi* 'that'. The difference being between maa in its relativizing function and illi is that maa can only be used to refer to inanimate objects whereas *illi* is a definite relative pronoun that can be used with both animate and inanimate objects. In addition, the use of the particle maa indicates more absolute senses, i.e., maa inclusively refers

to whatever the addressee may hope for (9a) and whatever she is afraid of (9b). The use of *illi*, being a definite relative pronoun, will refer to specific definite things that the addressees may hope for and be afraid of.

The absolute senses of *maa* show an important point that one can draw from these examples in (9b). Al Zahrani and Alzahrani (2019) argue that the HA negative maa indicates the absolute negation when occurring before perfective and imperfective forms. Also, the particle maa in Classical and Modern Standard varieties of Arabic indicates the absolute negation before the indicative mood, as argued by Rammuny (1978:253). Building on these arguments and on what one can observe from the examples in (9a-c), one must then be inclined to draw the generalization that maa can be characterized in some functions by the property of absoluteness. This sense of absoluteness can be further evidenced by the fact that maa may function as an indefinite relative pronoun indicating a range of senses when affixed to some other elements including kullamaa 'every time, whenever', wagt maa 'the time at which', kul maa 'everything that, whatever' bainmaa 'while' or 'whereas', zai maa and mithlmaa 'however, as, like, similar to'. A number of these functions are exemplified in (10).

10. a. <i>kullamaa ga:bal-t-uh sharad</i> whenever PF.meet-1SG-2SG.M PF.escape-3SG.M 'Whenever I met him, he would run away.'	
b. <i>ishtar kul maa ti-<u>h</u>ta:j</i> IM.buy.2SG every PRT IMPF.2SG.M-need 'Buy whatever you need.'	
c. <i>ruh ishtar-ha bain-maa</i> IM.go.2SG IM.buy.2SG-3SG.F between- PRT <i>a-kalim abu-k</i> IMPF.1SG.M-write father-2SG.M 'Go and buy it while I call your father.'	
d. <i>hu: <u>s</u>:adiq bain-maa</i> PRN. 3SG.M.NOM truthful between-PRT <i>int kadha:b</i> PRN. 2SG.M.NOM liar 'He is truthful; whereas you are a liar.'	
e. <i>ilbas zai-maa tu-<u>h</u>ub</i> IM.dress.2SG <i>like</i> -PRT IMPF.2SG.M-like 'Dress however you like.'	
f. <i>b-t-udu:r <u>h</u>ul-ha ila</i> FUT-2SG.M.circle around-3SG.F.ACC P <i>maa laa niha:yah</i> PRT NEG end 'You would be circling around it timelessly.' [Lit: You would be circling around it to where no e	end.]

The examples in (10) present some of the different uses of *maa* when composed with other elements. All these uses indicate, more or less, the sense of absoluteness. It is important to point out that the presence of maa with these elements in (10af) is obligatory as its absence renders the clauses ungrammatical. Here again, that the interpreted senses of maa are governed by its syntactic environment, i.e., in each case maa is governed by (and selected by) the immediate constituent preceding it. For instance, in bain-maa the particle maa is governed and selected by bain to convey the temporal meaning corresponding to 'during the time that, while' in (10c) and the contrastive meaning corresponding to 'whereas' in (10d). Other uses of maa show similar senses to the English whelements when suffixed to ever (10a,b,e &f). This suggests that the particle maa can occur in embedded clauses. It can also be suffixed to the preposition *bi*-, the verb *ta*:*la*, or precede the verb *da*:*m*. These two verb forms express senses related to continuity and remaining, and when maa is attached to them the derived forms can be interpreted as 'as long as, because it continues/remains, because it is still the case that ...' etc. Consider the examples in (11).

 11. a. <i>bi-maa inn-ak musa:fir</i> P-PRT C-2SG.M.ACC PART.travel.2SG.M <i>bukrah ijlis ma^c-na allailah</i> tomorrow IM.sit.2SG P-1PL.GEN tonight 'Because you are travelling tomorrow, stay tonight with us.'
b. ta:la-maa inn-uh mawju:d
PF.extend-PRT C- 3SG.M. ACC PART.exist.3SG.M
la:zim yu-hTHur al-dars
MOD IMPF.3SG.M-join D-lesson
'As long as he is around, he should join the class.'
c. ta ^c a:l zu:ra-na maa-da:m
IM.come.2SG IM.visit.2SG-1pl PRT-continue
inn-ak fi al-Taif
C-1SG.M. ACC P D-Taif
'Come and visit us as long as you are still in Taif.'

One can notice that the examples in (11a-c) present the particle maa in subordination where the subordinative clause may precede (11a-b) or follow (11c) the main clause. The different interpretations of *maa* indicated by examples (11a-c) are syntactically restricted to the presence of maa before/after the elements combined with *maa*. Furthermore, the examples in (11) show that the particle maa should always be followed by a CP headed by the complementizer inn. Needless to say, the presence of *maa* is obligatory for the grammaticality of these clauses in (11). While these interpretations of maa show maa in a structure where it must be followed by the complementizer inn, maa can also function as a complementizer as shown in the next subheading.

3.3 Maa functioning as an infinitival particle

One of the functions of the HA *maa* is similar to the function of the CA and MSA complementizer 2n, which corresponds to the English infinitival tense marker to. In such a case, the particle *maa* must restrictedly occur after a time conjunction element as shown in (12).

12. a. sa:far	gabl	ma	a ra:salt-uh	
PF.travel.1SG.M	before	PRT	PF.correspond.1SG-3SG.M	
'He had travelle	d before	I ema	iled him.'	
b. sa:far	$ba^{c}d$	таа	ra:salt-uh	
PF.travel.1SG.M	after	PRT	PF.correspond.1SG-3SG.M	
'He travelled aff	ter I had	email	ed him.'	
c. sa:far			mura:salat-uh	
PF.travel.1SG.M	before/	after	PART.correspondence-3SG.M	
'He travelled before/after sending him the email.'				

Examples (12a-b) show that the particle maa refers to either an action that is anterior or posterior to the action expressed by the higher matrix clause sa:far 'he travelled'. In (12a), the action of travelling is anterior to the action expressed after maa while it is posterior to the action after maa in (12b). These senses emerge due to the highly restricted environment of maa that shows an association between the adverbial time elements (time conjunctions) and the particle maa. Some linguists consider maa in this function gerundive (masdariyh) due to the fact that the verb following maa can be interpreted in its verbal noun form, i.e., masdar, after the deletion of maa as in (12c). Notice that the term *masdariyh* is derived from *masdar* which means 'source' where a verbal noun "names the action denoted by its corresponding verb" (Ryding 2005:75). Yet again, the examples in (12) indicate that the syntactic placement of maa and the structure around it with the selectional properties of the adverbial words makes maa function in this infinitival way. The next section shows that maa can be conditional.

3.4 Maa functioning as a conditional particle

For its conditional function, the particle *maa* requires the presence of exceptive particle *illa* 'except' as shown in (13).

13. a. <i>maa</i> NEG	<i>t-ru:<u>h</u></i> IMPF.2SG.M-go		<i>a-ru:<u>h</u> IMPF.1SG-go</i>	
'You	do not go unless	s I go wi	th you.'	
[lit: y	ou don't go exce	ept I go	with you]	
NEG <i>illa</i> EXPT 'If yo	<i>t-sawi</i> IMPF.2SG.M-do <i>t-la:gi-h</i> V IMPF.2SG-fi ou do a good thin you do not do a t	thing g ind-3SG.M ng, you f	find it'	ou find it]

In examples (13) one can notice that the conditional function is expressed via the cooperation between the functions of both the negative *maa* and the exceptive particle *illa*. Stated differently, the absence of either element derives ungrammatical clauses. Hence, this rigid structure of *maa+illa* is what makes *maa* function as a conditional element. This also supports the claim that there is no ambiguity between the different functions of *maa* discussed so far.

Example (13a) can be interpreted as 'if you go, I must go with you' where the necessity interpretation expressed by 'must' in this English translation is indicated by the combination of *maa+illa* (13). Notice that (13a) can also be interpreted as 'you cannot go without me going with you'. Hence, these interpretations indicate a strong necessity meaning and a strong prevention meaning; both of which are resulted from the combination of *maa* and the exceptive particle *illa* in the respective structures.

Similarly, example (13b) can be interpreted as 'you can never do any good things without finding them [=their good results later]'. These interpretations are not attained in normal conditional clauses using the default conditional particle *idha* 'if' as shown in (14).

14. a. <i>idha t-ru:<u>h</u> a-ru:<u>h</u> ma^c-ak</i> if IMPF.2SG.M-go IMPF.1SG-go P-2SG.M.GEN 'If you go, I go with you.'
b. <i>idha t-ru:<u>h</u> mumkin a-ru:<u>h</u> ma^cak</i> if IMPF.2SG.M-go MOD IMPF.1SG-go P-2SG.M.GEN
'If you go, I may go with you.' c. * <i>idha t-ru:<u>h</u> illa a-ru:<u>h</u> ma^cak if IMPF.2SG.M-go EXPTV IMPF.1SG-go P-2SG.M.GEN 'If you go, I go with you.'</i>
d. * <i>maa t-ru:<u>h</u> illa mumkin</i> NEG IMPF.2SG.M-go EXPTV MOD <i>a-ru:<u>h</u> ma^cak</i> IMPF.1SG-go P-2SG.M.GEN

The interpretation of the conditional clause in (14a) is not as strong as its counterpart in (13a). Evidence for this claim emerges from (14b-d) where the possibility modal *mumkin* may head the lower TP [*aru:h* ma^cak] if the matrix clause is headed by *idha* (14b), which, in turn, shows a possible proposition. In contrast, the presence of the exceptive particle, which emphasises the interpretation and makes it strong when accompanied with *maa*, cannot occur in a normal conditional clause headed by *idha* as shown by the ungrammaticality of (14c). Nor can the possibility modal *mumkin* occur with *illa* as shown by the ungrammaticality of (14d).

Hence, the strong conditional interpretation is derived through the combination of prevention and emphasis: prevention through *maa* and emphasis through *illa*. This syntactic combination gives the meaning that 'your going is conditioned by my going with you; otherwise, you can't go'. This, once more, shows another highly restricted and syntactically-inflexible environment, which backs up the above claim that the rigid syntactic structure of *maa* makes it behave in a particular way.

3.5 *Maa* functioning as an interrogative particle

The particle *maa* can also function interrogatively. In this function it expresses negation and interrogation in yes/no constructions as in (15).

15. a. <i>maa ga:bal-t-ak</i> NEG PF.meet-1SG-2SG.M 'Did I not meet you yesterd	ams? yesterday ay?'	
b. <i>maa a-ga:bil-ak</i> NEG IMPF.1SG-meet-2SG.N 'Do I not meet you every N		<i>ithnain?</i> Monday
c. <i>*laa ga:bal-t-ak</i> NEG PF.meet-1SG-2SG.M	<i>ams?</i> yesterday	

In examples (15a-b), maa shows both negative and interrogative functions. This does not contradict the claim that there is no ambiguity between the different functions of a multifunctional element. Stated differently, one can tell that there are only two functions without any ambiguity with other functions. However, the two functions have been derived successively through different syntactic operations. To account for this, recall that a null CP, as is the case in (15a-b), is headed by a null complementizer carrying a declarative force feature (Radford 2009:99). Underlying, we assume that the negative function of maa in (15a-b) emerges through the presence of maa in its base-generation position (NegP) that dominates TP that is dominated by a null CP that assigns the declarative force before any overt movement of the negative maa has taken place (Al Zahrani 2014b; Al Zahrani and Alzahrani 2019). Then, the interrogative interpretation is resulted by some overt movement of the negative maa to CP. According to the Feature Checking in the Government and Binding theory, the negative maa first checks its negative feature where it is base-generated in NegP before moving higher to CP to check the interrogative feature that requires a morphological form that must merge with its interrogative feature. This type of overt movement that results in another function is not unusual. For instance, all English modals must merge with both Tense and Modal functions before moving higher to the head of CP to interpret the interrogative function (Radford 2009). This analysis of English modals shows three functions: tense, modality and interrogation.

Expressing negative and interrogative functions is particular to the negative *maa*. Unlike the HA negative *maa*, the HA negative *laa* cannot express negative and interrogative functions as indicated by the ungrammaticality of (15c). This proposes that the primary function of *maa* in (15a-b) is negation while the interrogative function is derived through the overt syntactic movement to CP (more in Section IV). Hence, there is no ambiguity between the functions of *maa*. If *maa* stays *in situ* (NegP), it only shows a negative function; if it, however, moves to CP it absorbs another function due to the merge operation with the interrogative feature of CP. Now, the paper moves on to explore the exclamative function of *maa*.

3.6 Maa functioning as an exclamative particle

The use of the particle *maa* to express astonishment, surprise, or wonder is very common in HA. In this function, the exclamatory *maa* can occur with verbal and nominal clauses. In verbal clauses, *maa* is highly restricted to only select for one type of verbs conjugated on one particular templatic form, i.e., Trilateral Form IV aF^caL (see Chapter 3 in (Al Zahrani 2013) for HA, and (Hasan 2014) for Standard Arabic). Now, consider the examples in (16).

16. a. <i>maa ajmal al-wuru:d</i> PRT beautiful D-flowers 'How beautiful the flowers are!'
b. <i>maa aghba:-hum</i> PRT stupid-3PL 'How stupid they are!'
c. <i>maa a<u>h</u>abu-uh fi al-rasm</i> PRT love-3SG.M.ACC P D-drawing 'He loves drawing!' [lit: what he-loves drawing]

In (16) the exclamatory *maa* is followed by the verbs *ajmal* and *aghba:*, which look like adjective forms in the English translation. Ryding (2005:519) calls such verb forms in CA and MSA 'adjectival verbs'. Cowan (1958:102) calls them "verbs of surprise or admiration". Cantarino (1974) considers them elative forms; he states that they are "elative in the accusative of exclamation" (Cantarino

1974:210). Notice that Cantarino uses the term accusative since CA verbal forms occurring with this type of *maa* exhibit the accusative case, which is morphologically null in almost all HA nominal forms. Cantarino uses the term elative, which corresponds to what Arab grammarians label as *'ism tafdi:l'*, i.e., noun of preference, to describe the superlative properties derived from this structure of *maa* and its following verbal forms.

This description of the examples in (16) shows that *maa* in its exclamatory function should only be followed by a particular form of verbs, which shows the restrictedness and rigidness of this syntactic behaviour.

3.7 Maa functioning as a particle of inclusion

The particle *maa* can also be used to indicate the inclusion of the whole time and space referred to in a proposition. In this function, *maa* can be interpreted as 'between that which spans...'. Consider the examples in (17).

- 17. a. *ni-tga:bal maa-bain al^casr wa almaghrib* IMPF.1PL-meet PRT-P Asr and Maghrib 'We meet (at the entire time) between Asr and Maghrib prayers.'
 - b. *khalli-na ni-hrwil* ^c*la al-rasi:f* IM.let.1PL IMPF.1PL-jog P D-sidewalk *maa-bain bait-na wa bait-kum* PRT-P house-1PL *and* house-2PL 'Let's jog on the sidewalk (spanning in the whole area) between our house and your house.'

Example (17a) occurs in a context where the speaker tells the addressee that they regularly meet and that their meeting spans almost from the Asr prayer to the Maghrib prayer: the prayers between the afternoon and sunset times. In like fashion, the speaker in (17b) invites the addressee to both jog on the whole sidewalk between their houses. The inclusiveness of the entire time and space referred to in the propositions in (17) is a special property of the particle maa. This is due to the fact that the element *maa-bain* is a composite of two morphemes: the particle maa (=inclusiveness) and the preposition bain 'between'. One can look at the resulting meaning of the combination of these two morphemes as 'the whole time/space spanning between X and Y'. The evidence for this claim is that the presence of the preposition bain without maa in (17) makes the interpretations lack the meaning of inclusiveness; however, the particle *maa* cannot exist in these structures in (17) without *bain*. Consider the examples in (18).

- 18. a. *ni-tga:bal bain al^easr wa almaghrib* IMPF.1PL-meet P Asr and Maghrib 'We meet between Asr and Maghrib prayers.'
 - b. khalli-na ni-hrwil ^cla al-rasi:f
 IM.let. 1PL IMPF.1PL-jog P D-sidewalk
 bain bait-na wa bait-kum
 P house-1PL and house-2PL
 'Let's jog on the sidewalk between our house and your house.'
 - c.**ni-tga:bal maa al^ca<u>s</u>r wa almaghrib* IMPF.1PL-meet PRT Asr and Maghrib

Examples (18a-b) occur without the particle *maa* and indicate the interpretations 'we meet at some point of time between Asr and Maghrib prayers' and 'Let's jog on the sidewalk between our house and your house' respectively. Hence, the sense of inclusiveness is absent in (18a-b) due to the absence of *maa*. The ungrammaticality of (18c) is accounted for by the absence of the locative preposition *bain*. Put differently, the syntactic environment in (18c) is not suitable for the particle *maa* and none of its functions and interpretations is valid here. Therefore, *maa* does not suffice for the grammaticality of the structure in (18c).

Recall that the syntactic features and selectional properties play a crucial role in determining the appropriate interpretations of *maa*. We have noticed that the element *bain* may select for the particle *maa* to interpret the senses of 'while/ whereas' (10c-d); but *bain* may be selected by *maa* to interpret the sense of inclusiveness (17). Hence, the syntactic position of *maa* before or after the preposition results in different interpretations.

It is striking that the sense of inclusiveness indicated by the particle *maa* is not unusual. This inclusiveness function of the particle *maa* in (17) invites us to recall the argument above made in examples (9a-c) where *maa* indicates a sense of absoluteness. The similarity between these two functions of *maa* is clear, i.e., in (13a-b) the sense of inclusiveness covers all the time duration (13a) and space (13b) spanning between the two prayers and the two houses; in (9a c) the sense of absoluteness includes all of what the addressee is hoping for (9a), afraid of (9b), and wants (9c).

Furthermore, the sense of inclusiveness can be accompanied with focus and emphasis interpretations when the particle *maa* is suffixed to the preposition *bi*- as shown in (19).

- 19. a. gha:b kul al-tulla:b bi-maa PF.be.absent.3SG.M all D-students P-PRT fi:-hum al-shuta:r P-3PL-GEN D-hard.working
 'All the students are absent including the hard working ones'.
 - b. *a-hzim kul al-musa:r^ci:n bi-maa* IMPF.1SG-beat all D-wrestlers P-PRT *fi:-hum int* P-3PL-GEN PRN.2SG.M.NOM 'I beat all the wrestlers including you.'

Example (19a) is uttered in a context where the speaker advises that all the students are absent and then he adds an emphasis on the absence of the hard working students by the use of the particle maa suffixed to the preposition bi- followed by the preposition *fi-* [*bi-maa fi:*]. Likewise, example (19b) shows that while the speaker arrogantly states that he is able to beat all the wrestlers, he highlights the inclusion of his addressee in the challenge by the structure of [bi-maa fi:]. The occurrence of the structure [bi-maa fi:] suggests that the hard working students are not like other students who normally miss classes (19a), and that the addressee in (19b) is not like some other wrestlers. The structures in (19b) show that the combination of [bi-maa fi:] interprets the sense of inclusiveness in restricted environments of maa. This senses of inclusiveness indicated by the structure of [*bi-maa fi*:] in (19) are similar to another Arabic style known as particularizing a member (or some members) for some focus out of the whole group after mentioning the whole group first. To clarify, the hard working students form a small group out of the bigger group of all students in the class (19a). Similarly, the addressee is supposedly a member of the whole group of wrestlers in (19b); for more on this style the reader is advised to see, for example, Ateeq (2009:191). What these senses of inclusiveness and focus suggest is that they re-emphasize the argument that the syntactic behaviour of maa derives its interpretation. This, in turn, poses the question of what determines a particular syntactic behaviour of maa.

To answer this question, recall that Section III and its subsequent sections have covered the different functions and uses of the particle *maa* along with a brief overview of some of the syntactic properties of the different uses. These different functions and uses propose different syntactic behaviours of *maa* that are derived according to its different

morphosyntactic features that form its feature matrix, as shown in the next section.

IV. THE FEATURE MATRIX OF MAA

From what the paper has described in Sections through 3.7, and from the theoretical 3.1 assumptions presented in Section II, one is inclined to conclude that the different functions of maa are unambiguously interpreted according to the different syntactic environments that maa surfaces in. That being so, the HA maa does not show instances of homonymy, but of multifunctionality. Being multifunctional, I argue that the different functions of *maa* form a feature matrix composed of its functions and their morphosyntactic features and specifications that determine its syntactic behaviour and its appropriate interpretation in a given context. When a feature is selected, it is specified for a particular use that conveys a particular interpretation. This, however, entails that all the other unselected features become underspecified in that particular use. Underspecification, for the purpose of this paper, is the linguistic phenomenon of omitting/deleting the form-features that are not compatible with a particular morphosyntactic environment of that form (for more on specification/ underspecification, see Siddiqi 2009; Opitz, Regel, Müller, and Friederici, 2013). To apply this to the functions of maa, consider (7b) above repeated below as (20).

20. *na:deran maa a-ktub fi al-faisbok* rare PRT IMPF.1SG-write P D-facebook 'It is rare that I write on Facebook.'

Recall that the description of the different functions of *maa* presented in sections 3.1 through 3.7 deduce that *maa* is specified for the following features.

[+negative], [+emphatic], [+relative pronoun], [+infinitival], [+conditional], [+interrogative], [+exclamative], [+inclusive]

Furthermore, the description provided so far has shown that each feature of *maa* can only be interpreted in a specific restricted syntactic environment. This being the case, (20) presents *maa* in a specific syntactic structure where it is preceded by the time adverbial element *na:deran* 'rarely/ rare'. Thus, it is specified for the [+emphatic] feature, and accordingly all the other features shall be underspecified in this context. In consequence, *maa* in (20) can only be interpreted as emphatic. The question to be asked at this juncture is how we can account for the presence of two features of *maa* as is the case in (13a) and (15a) above, repeated below as (21a&b) respectively.

7
you.'
ams?
yesterday
?'

In (21a) *maa* is specified for both [+negative] and [+conditional] features. In (21b) maa is specified for both [+negative] and [+interrogative] features. In each case, all the other features of maa are underspecified due to their incompatibility with the respective syntactic environments. It should, however, be pointed out that maa in (21a) is primarily specified for the [+negative] feature; the additional feature of [+conditional] is derived from the presence of maa in conjunction with the exceptive particle *illa*. In similar fashion, the underlying structure of (21b) reveals that maa is mainly specified for the [+negative] feature before its overt movement to CP has taken place. Having moved to CP, the negative maa is then specified for the interrogative feature and should therefore jointly interpret the [+negative] and [+conditional] features.

This analysis, however, implies that the [+negative] feature is more salient and prominent than the other features. This implication can be further supported by what the literature on the HA negative *maa* has

shown about its freer syntactic distributions and its various selectional properties when compared to the syntactically restricted and inflexible distributions and selectional properties of the other functions of maa. That is, the studies on the HA negative maa (including Al Zahrani 2008, 2013, 2014a, 2014b, 2016, 2018; Al Zahrani and Alzahrani, 2019) conclude that the negative maa can freely scope over verbal and nonverbal clauses. Besides, it can either scope over modal particles or be in the scope of those modal particles. Furthermore, it is also worth noting that the negative maa has two other negative variants (muu and mee) that are specified for gender features and non verbal predicates. Apart from the negative maa, each of the other functions of maa represents more restricted and rigid syntactic distribution with only one single form: maa. Taking this all into account, the negative maa and its variants muu and mee exhibit more distributional flexibility and properties leading to more prominence. In light of this analysis, the feature matrix of the HA maa can be summarized Table 1.

The specifications column entails that if *maa* is specified for the feature(s) indicated between a set of square brackets, the other features turn out to be underspecified. The right-side column briefly outlines the morphosyntactic properties and the distribution of each function of *maa*. It is evident that, apart from the negative *maa*, all the other functions of *maa* are inflexible in their occurrence since they require rigid syntactic environments and show restricted selectional properties. The next

Specifications of maa	Morphosyntactic features & distribution (briefly)		
[+negative]	• <i>maa</i> scoping over verbal, nonverbal & modalized clauses		
	 modalized clauses scoping over maa (scope variation) muu/mee scoping over nonverbal predicates, with gender 		
	variations		
[+negative+conditional]	• maa/muu/mee + illa		
	Note: Negative <i>maa</i> and its variants have the same morphosyntactic		
	features and distribution shown in the upper cell.		
[+negative+interrogative]	<i>maa/muu/mee</i> + Move operation to CP		
	Note: Negative <i>maa</i> and its variants have the same morphosyntactic		
	features and distribution shown in the upper cell.		
[+emphatic]	Adverb of Frequency + maa		
[+relative pronoun]	maa in supplications, prayers and wishes		
[+infinitival]	Time Conjunction + maa		
[+exclamative]	$maa + aF^{c}aL$		
[+inclusive]	[maa + bain] OR [bi+maa+fi:]		

 Table 1: Feature Matrix of maa

section outlines the findings and conclusions of the paper and provides some recommendations for future work.

V. CONCLUSIONS

The paper has explored the multiple uses of the HA *maa*, its morphosyntactic features and their specifications. It has argued that those multiple uses of *maa* are reflexives of multifunctionality, not homonymy. Being a multifunctional element, its morphosyntactic features and their specifications form a feature matrix and determine its syntactic behaviour and its appropriate interpretation in a given context. That is, when a feature is selected, *maa* turns out to be specified for that feature in a particular use that conveys a particular interpretation. What follows from this specification is that all the other unselected features of *maa* use. Nevertheless, there is no semantic or syntactic

ambiguity between these functions. Based on the above considerations, HA *maa* can function as a negative particle, an emphatic particle, a relative pronoun, an infinitival particle, a conditional particle, an interrogative particle, an exclamative particle or a particle of inclusion.

Given that *maa* can function differently and interpret different senses, these different functions and uses of *maa* suggest that *maa* cannot occupy the same position in the hierarchy (Cf. negative, affirmative, relative and exclamative functions). While it is beyond the scope of this paper to conduct a deep investigation of the syntactic placement and the hierarchical properties of each use of *maa*, it has provided a fertile ground for future research that may deeply investigate the structural properties of each function of *maa*, its placement and how *maa* in such a function interacts with other functional categories.

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Appendix : Abbreviations

1	Einst nonson	IND	Indicative mood
1	First person	IND	Indicative mood
2	Second person	NEG	Negative
3	Third person	Μ	Masculine
ACC	Accusative case	MOD	Modal
С	Complementizer	NOM	Nominative case
CP	Complementizer Phrase	Р	Preposition
CA	Classical Arabic	PART	Participial from
D	Determinative	PF	Perfective verb form
EXPTV	Exceptive particle	PL	Plural
F	Feminine	PRT	Particle
GEN	Genitive case	SG	Singular
HA	Hijazi Arabic	TP	Tense Phrase (Projection)
IM	Imperative mood	VP	Verb Phrase (Projection)
IMPF	Imperfective verb form	SA	Standard Arabic