Transcription of the Korean Language into the Greek Alphabet

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1. Introduction

National Institute of Korean Language (Korean: 국립국어원) established the "Revised Romanization of Korean (RR)" to romanise the Korean language correctly into the Latin script. This rule has been officially approved by the Korean government in 2000. Now, all road signs, official documents and textbooks are obliged to follow this rule. Also, there are some proposed rules to correctly transcribe the Korean language into Japanese Kana script or Cyrillic script. However, currently there is no rule proposed for correct transcription or transliteration of the Korean language into the Greek alphabet.

2. Previous Tendency of Transcribing the Korean Language into the Greek Alphabet

2.1. Examples of Previous Transcription of the Korean Language into the Greek Alphabet

English as romanised Korean has been used as a medium to transcribe the Korean language into the Greek alphabet. But, this method evoked many problems such as incorrect description of Korean names and places into the Greek alphabet, and it was also inconsistent. Therefore, a proper method should be introduced to directly transcribe the Korean language into the Greek alphabet. Below are some examples of the problems which were observed in Greek press, the encyclopaedia, and from internet search.

(1) "Το μεσημέρι της Τετάρτης ο κ. Παπούλιας και η ελληνική αντιπροσωπεία θα μεταβεί στη περιοχή *Ιντσέον*, όπου βρίσκεται το Μνημείο των Ελλήνων Πεσόντων στον πόλεμο της Κορέας...." (Η Καθημερινή 2013)

Korean	Pronunciation	IPA	RR	Greek from Text	IPA of Greek Transcription	
인천	[인천]	[in.tcʰʌ̞n]	Incheon	Ιντσέον	[in'tseon]	

(2) "Νικήτρια των προεδρικών εκλογών της Ν. Κορέας είναι η Παρκ *Γκεούν-Χίε* σύμφωνα με ανακοίνωση της εκλογικής επιτροπής της χώρας." (Voria.gr 2012)

Korean	Pronunciation	IPA	RR	Greek from Text	IPA of Greek Transcription
근혜	[근혜/근헤]	[kwn.h(j)e̞]	Geun-hye	Γκεούν-Χίε	[ge'un. 'çie]

(3) "Το *Τάε Κβον Ντο* είναι η πιο δημοφιλής κορεάτικη πολεμική τέχνη και το εθνικό σπορ της Κορέας." (Ελληνική Βικιπαίδεια 2015)

Voncen	Duonun siation	IDA	DD	Greek from	IPA of Greek
Korean	Pronunciation	IPA	RR	Text	Transcription

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(4) "Νταεγιόν: Πόλη στη Νότια Κορέα...." (Google 2015)

Korean	Pronunciation	IPA	RR	Greek from Text	IPA of Greek Transcription	
대전	[대전]	[tɛ.ʤʌn]	Daejeon	Νταεγιόν	[daeˈjon]	

(5) "...για τον τερματισμό της στρατιωτικής έντασης μεταξύ των δυο χωρών, τόνισε την Παρασκευή ο βορειοκορεάτης ηγέτης Κιμ *Γιονγκ Ουν*." (Το Βήμα 2015)

Korean	Pronunciation	IPA	RR	Greek from Text	IPA of Greek Transcription
정은	[정은]	[tɛəːŋ.wn]	Jeong-eun (Jong-un*)	Γιονγκ Ουν	[joŋk.un]

^{*} The transcription 'Jong-un' (Chŏngŭn) is according to the romanisation rule of North Korea, which is based on the McCune-Reischauer romanisation. This rule was also used in South Korea as an official rule of romanisation until the establishment of RR.

The following names of places are the transcriptions of the Korean places into the Greek alphabet shown on the Google Maps as of November, 2015.

(6)

Korean	Pronunciation	IPA	RR	Greek from Google Maps	IPA of Greek Transcription
광주	[광주]	[kwaŋ.ʤu]	Gwangju	Γκουανγκγού	[guaŋkˈɣu]
서귀포	[서귀포]	[s ^h ʌ.gwi.p ^h o]	Seogwipo	Σεογκουίπο	[seogu'ipo]
전주	[전주]	[tɕʌn.dzu]	Jeonju	Γεονγού	[jeon'yu]
천안	[천안]	[tcʰʌ.nan]	Cheonan	Τσεονάν	[tseon'an]
충주	[충주]	[tcʰuŋ.dzu]	Chungju	Τσουνγκιού	[tsuŋgiˈu]
철원	[철원]	[tc ^h ʌ.rwʌn]	Cheorwon	Τσεοργουόν	[tseoryu'on]
경기도	[경기도]	[kjʌŋ.gi.do]	Gyeonggi-do	Γκυεόνγκι-ντο	[gie'oŋgido]

The above examples show that many problems exist on transcribing the Korean words into the Greek alphabet. We can also conclude that transcription into the Greek alphabet using the romanised Korean is not proper by looking at this figure.

2.2. Previous Tendency to Transcribe the Korean Language into the Greek Alphabet

By analysing examples, we can find a tendency to transcribe the Korean words into the Greek alphabet based on the romanised Korean. This can be shown as below.

	Vowels				Glides			Consonants												
a	e	i	0	u	j	w	у	b	ch	d	g	h	k	l	m	n	p	r	S	t
α	ε	ι	0	ου	γι, γ, ι, τζ, ζ	γου, ου, β	υ,	μπ	τσ, χ	ντ	γκ, γ	χ	κ	λ	μ	ν	π	ρ	σ	τ

The letter 'j' which is used to represent [tc] or [dc] sound in RR as in a word ' \mathbb{A} (Jeju)' [tce:.dcu], has been sometime simply replaced by the letters ' $\gamma\iota$ ', ' γ ', or ' ι ' in Greek or used to represent the [j] sound.

Also, there was a tendency to romanise [w] sound as not only ' γ ov' and 'ov', but also ' β ', which has [v] sound. It is assumed that this tendency is due to the influence of the German language.

In addition, for the acute accent mark (τ óvo ς), there was a tendency to be stressed on the one of the last two syllables.

Since these phenomena could lead to the big confusion as an increasing popularity of Korean culture as a K-Pop, the transcription rule for Korean Language to Greek alphabet should be established to avoid further confusion.

3. Limitations of Transcribing the Korean Language into the Greek Alphabet

Since the Greek language have different phonemes to the Korean language, transcribing the Korean words into the Greek alphabet for a proper pronunciation can be very difficult. Below are some characteristics of Greek pronunciation and limitations of transcribing Korean Korean language into Greek.

- 3.1. Since there are no distinct letters or combinations of letters to pronounce $[\eta]$ in the Greek language, the final consonant of Korean language $[\, \circ \,]$ cannot be transcribed perfectly. The letter combination of ' $\gamma\gamma$ ' or ' $\gamma\kappa$ ' could be pronounced as $[\eta]$, but it can also be pronounced in other ways. The general way is to use letter combination of ' $\nu\gamma\kappa$ ' $[\eta k]$ but it should be avoided when it is followed by the vowel, since [k] sound could affect the pronunciation of next sound.
- 3.2. Greek language does not has a phoneme [h] ([ਰ] in Korean). The closest sound can be represented by the letter 'χ' [x], [ç]. We should notice that 'χα' [xa] and 'χι' [çi] have close sound to 'ਰੈ' [ha] and 'ਰੈ' [hi] but 'χε' [çɛ] sounds similar to 'ਕੈ' [hje] or 'ਕੈ' [hjɛ], but not to the 'ਕੈ' [he] or 'ਕੈ' [hɛ]. It's hard to transcribe these 'ਕੈ' [he] and 'ਕੈ' [hɛ] sounds into the Greek alphabet.
- 3.3. Since Greek language doesn't have sound corresponding to ' ¬ ' [ʌ], [əː], '¬ ' [jʌ], [jəː], and '—' [w], [wː], we should use same Greek alphabet to match with several Korean vowels, unless we use extra alphabets which do not exist in Greek.

4. Idea of the Transcription System

We have to think about the idea of this new transcription system from Korean language to the Greek alphabet, that will help me build this system in a proper manner.

First of all, since I considered that to deliver the correct pronunciation is more important than making reader figure how it was originally written in Hangeul (except for the research purpose – such as Yale Romanisation System which is only used in academic purposes), I decided to transcribe the words instead of transliterate them. This also matches to the basic idea of McCune-Reischauer Romanisation method being used by North Korea and previously used by South Korea, and the RR of South Korea.

Also, one of the trickiest things that we have to think about is the acute accent $(\tau \acute{o} vo\varsigma)$ of Greek language. Since Korean language (except for some Korean dialects) doesn't have stress in the pronunciation, it is difficult to decide to what vowel we should put the acute accent on. And since it becomes more natural when we put accent on the first syllable of Korean word in isolation, I decided to use this method throughout my system. I ignored the antepenult rule which is the rule that on the Greek words, accent can be fall only to the last three syllables which is ultima, penult, or antepenult. This is to make transcription more accurate to the Korean pronunciation. I have applied this strategy because there are some transcriptions of foreign names into Greek which does not observe this rule, and because this is not a native Greek words, but a transcription of a foreign language.

Most important purpose of the transcription is to make it pronounced accurately. But, there are some issues that should be considered. There is a problem in RR, that the combination of the ' \circ ' [η] and ' \circ ' [η], and the combination of the ' ι ' [η] and ' η ' [η] is both represented as ' η g' in RR (McCune-Reischauer solved this problem by using an apostrophe, for example ' η g' and ' η g' respectively). Similarly, when we use letter combinations like ' η u' or ' η t' in transcription, it is uncertain whether this is a combination for one consonant sound or it is the combination of two consonants, ' η ' [η] and ' η ' [η], and the combination of the ' η ' [η] and ' η ' [η '] respectively. However, since almost every Greek transcriptions of foreign words don't use special symbols like apostrophe to make these problems clear, I also decided not to use apostrophe or other symbols to guide to proper pronunciation, even though the transcription may be ambiguous.

Moreover, one of the characteristics of the RR and McCune-Reischauer method is that it romanise the ' $\ \|'\ [\epsilon]$ and ' $\ \|'\ [e]$ sound differently to 'ae' and 'e', and it is thought to be one of the characteristics from transliteration – to distinguish these 2 commonly used sound although it has no significant pronunciation difference. However, since Greek language doesn't have a minimum pair of $[\epsilon]$ and [e], I decided to use the ' ϵ ' for in both case of ' $\ \|'$ ', and ' $\ \|'$ '. Furthermore, since Greek language does not have a distinction between ' $\ \|'\ [\alpha]$, $[\epsilon]$, and ' $\ \|'$ ' $[\epsilon]$, and ' $\ \|'$ ', and sound, and between ' $\ \|'$ ' $[\epsilon]$, and ' $\ \|'$ ', and ' $\ \|'$ ', and similarly, letter 'ov' for both ' $\ \|'$ ', and ' $\ \|'$ '.

Therefore, based on these ideas, I will systemise the transcription method of the Korean language into the Greek alphabet.

5. Summary of the Transcription System into the Greek Alphabet

5.1. Vowels

Words are stressed on the first letter in every case except for when the transcription is one syllable word, and for when '-]' combination appears as 'out' on the words. In this case, 'out' is always stressed as oút. If more than two of these combinations appear in same word, we only stress the last combination. When the transcription is one syllable word, word is not stressed.

5.1.1. Simple Vowels

	ŀ	1,1	丁,一	1	H, 1	긔	ਜੇ
	α	0	ου	ι	3	30	ουι
stressed	ά	ó	ού	ί	έ	οέ	ουί

(7) 시외 [시ː외]: σίοε, 외래 [외ː래]: οέρε

주위 [주위]: τζούουι, 위치 [위치]: ουίτσι

주의 [주ː의/주ː이]: τζούι

5.1.2. Diphthongs

	ŧ	╡, ユユ	т	月, 引	과	ᅫ, 궤	뎌	ᅴ
	ια	ιο	ιου	ιε	ουα	ουε	ουο	ουι
stressed	ιά	ιό	ιού	ιέ	ουά	ουέ	ουό	ούι

If syllable is onsetless on following syllables, we add ' γ ' as below to transcribe the diphthongs:

	ें	여, 요	ਜੰ	얘, 예
	για	γιο	γιου	γιε
stressed	γιά	γιό	γιού	γιέ

(8) 야구 [야:구]: γιάγκου, 주야 [주야]: τζούγια

야유 [야ː유]: γιάγιου, 의자 [의ː자]: ούιτζα

기와 [기와]: γκίουα, 원석 [원석]: ουόνσοκ

의정부 [의정부]: Ούιτζονγκμπου

5.2. Consonants

If a transcription contains a combination of two consecutive identical consonants such as ' $\kappa\kappa$ ', ' $\lambda\lambda$ ', ' $\mu\mu$ ', ' $\nu\nu$ ', ' $\pi\pi$ ', and ' $\tau\tau$ ', these are **simplified** as ' κ ', ' λ ', ' μ ', ' ν ', ' π ', and ' τ ', respectively.

5.2.1. Plosives (Stops)

_	1	п, =	Е			π, Ε	E	1	昍, 豇
Onset	Coda	к	Onset	Coda	'⊏'+'人/从' Combination	τ	Onset	Coda	π
γκ	κ		ντ	τ	σ		μπ	π	

- (9) a. 악어 [아거]: ά**γκ**ο, 바다 [바다]: μπά**ντ**α, 가방 [가방]: γκά**μπ**ανγκ
 - b. 죽순 [죽순]: τζού**κ**σουν, 걷기 [걷ː끼]: γκό**τ**κι, 답 [답]: ντα**π**
 - c. 낯색 [낟쌕]: νά**σ**εκ
 - d1. 학교 [학꾜]: χάκιο (κκ Simplified), 조각칼 [조각칼]: τζόγκακαλ (κκ Simplified)
 - d2. 깃털 [긷털]: γκίτολ (ττ Simplified)
 - d3. 합판 [합판]: χάπαν (ππ Simplified), 갑판 [갑판]: γκάπαν (ππ Simplified)

5.2.2. Affricates

ス	双, え
τζ	τσ

(10) 자주 [자주]: τζάτζου, 짠맛 [짠만]: τσάνματ, 추위 [추위]: τσούουι 맞춤법 [맏춤뻡]: μάτσουμποπ (ττ Simplified)

5.2.3. Fricatives

人, 从	ō
σ	χ

(11) 석류 [성뉴]: σόνγκνιου, 싸움 [싸움]: σάουμ, 해류 [해:류]: χέριου

5.2.4. Nasals

L	п
ν	μ

		٥		
'o'+'¬' Combination	'o'+'∃' Combination	'ㅇ'+'ㅎ' Combination	'o' on Onset	'∘' on Coda
νγκ	νκ	γχ	νγ	νγκ

(12) 진통 [진통]: τζίντονγκ, 진동 [진ː동]: τζίντονγκ (νν Simplified) (cf. 지도 [지도]: τζίντο)

선녀 [선녀]: σό**ν**ιο (νν Simplified)

(cf. 소녀 [소ː녀]: σόνιο)

심판 [심ː판]: σίμπαν, 심방 [심방]: σίμπανγκ (μμ Simplified)

(cf. 시비 [시ː비]: σίμπι)

삼면 [삼면]: σάμιον (μμ Simplified)

(cf. 사면 [사ː면]: σάμιον)

(13) 경기 [경ː기]: γκιόνγκι, 장구 [장구]: τζάνγκου, 종각 [종각]: τζόνγκακ 땅콩 [땅콩]: τάνκονγκ, 상쾌 [상쾌]: σάνκουε 동해 [동해]: ντόγχε, 황해 [황해]: χουάγχε, 강화도 [강화도]: Γκάγχουαντο 평양 [평양]: Πιόνγιανγκ, 강원 [강원]: Γκάνγουον, 강우 [강ː우]: γκάνγου, 평일 [평일]: πιόνγιλ 강산 [강산]: γκάνγκσαν, 충청 [충청]: Τσούνγκτσονγκ, 장소 [장소]: τζάνγκσο

5.2.5. Liquids

We transcribe the '∃' or the combination as:

'ㄹ' on Onset	'ㄹ' on Coda
ρ	λ

(14) 설악 [서락]: σό ρ ακ, 길목 [길목]: γκί λ μοκ, 설날 [설:랄]: σό λ α λ (λλ Simplified)

6. Special Provisions for Transcription

6.1. Cases of Korean Sound Value Change Affecting the Transcription

In following Korean sound values change happens, transcription follows the real pronunciation. Unlike RR system, the transcription is affected in following cases: diphthong '¬' pronounced as '] '; aspirated sounds in nouns when '¬' follows '¬', 'L', and 'H'; change to the tense sounds in cases when morphemes are compounded.

6.1.1. The case of assimilation of adjacent consonants

(15) 백마[뱅마] (RR: Baengma): Μπένγκμα 신문로[신문노] (RR: Sinmunno): Σίνμουνο

6.1.2. The case of the epenthetic \vdash and \dashv

(16) 학녀울[항녀울] (RR: Hangnyeoul): Χάνγκνιοουλ

6.1.3 Cases of palatalization

(17) 해돈이[해도지] (RR: Haedoji): χέντοτζι

6.1.4. Diphthong '--|' pronounced as '] '

Unlike RR system, when diphthong '–]' pronounced as '] ', it follows the pronunciation and transcribed as 'i'

(18) 광희문[광히문] (RR: Gwanghuimun): Γκουάγχιμουν 연희[연히] (RR: Yeonhui): Γιόνχι

6.1.5. Aspirated Sounds in Nouns when 'ō' follows '¬', '∟', and '¤'

Unlike RR system, the aspirated sounds in nouns of 'ゔ' are shown on the transcription.

(19) 집현전[지편전] (RR: Jiphyeonjeon): Τζίπιοντζον

6.1.6. Tense (or glottalised) Sounds in cases where morphemes are compounded (in all cases)

Unlike RR system, the tense sounds are shown on the transcription.

(20) 일산[일싼] (RR: Ilsan): Ἰλσαν 압구정[압꾸정] (RR: Apgujeong): Ἀπκουτζονγκ 한자 [한짜] (RR: Hanja): Χάντσα

6.2. Capitalisation in Proper Names

First letter should be capitalised in proper names.

(21) 부산 (RR: Busan): Μπούσαν, 세종 (RR: Sejong): Σέτζονγκ

6.3. Word Stress in Case of Using Hyphen

In case of the word is separated by the hyphen in the transcription, each part of word divided by the hyphen is stressed separately according to as it's mentioned in **5.1**. That is, if word divided by the hyphen is one syllable word, it is not stressed.

(22) (경상북도 포항시) 남구 이동 희망대로: Χίμανγκ-**ντέρο**, **Ι**-ντονγκ, **Ναμ**-γκου (Νοτ *Χίμανγκ-ντερο, Ί-ντονγκ, Νάμ-γκου)*

6.4. Transcription of Personal Names

Personal names are written in the order of last name (family name) and first name. Hyphens may be used to separate each letter of first name in hyphen.

* Assimilated sound changes between syllables in given names are not transcribed.

(22) 한복남: Χαν Μπόκναμ (Χαν Μποκ-ναμ) 홍빛나: Χονγκ Μπίτνα (Χονγκ Μπιτ-να)

* Romanisation of last name follows the rule, (18a) but aspirated sound on the letter, (18b) and following the pronunciation of romanisation is also permitted.

(23) a. 권 (Gwon, Kwon): Γκουόν (Correct), Κουόν (Permitted) b. 최 (Choe, Choi): Τσοέ (Correct), Τσόι (Permitted)

6.5. Transcription of Administrative Units and Address

Administrative units such as 도, 시, 군, 구, 읍, 면, 리, 동, and 가, and type of roads such as 대로, 로, and 길(-번길) are transcribed as a rule, which is -ντο, -σι, -γκουν, -γκου, -ουπ, -ρι, -ντονγκ, -γκα, -ντέρο, -ρο, and -γκιλ (μπον-γκιλ), respectively. All of these suffixes are separated with hyphens and assimilated sound changes are not reflected before and after the hyphen.

(24) 충청북도: Τσούνγκτσονγκμπουκ-ντο, 의정부시: Ούιτζονγκμπου-σι 경상북도 포항시 남구 희망대로 1: 1, Χίμανγκ-ντέρο, Ναμ-γκου, Πόχανγκ-σι, Γκιόνγκσανγκμπουκ-ντο

6.6. Names of Geographic Features, Cultural Properties and Man-Made Structures

Names of geographic features, cultural properties and man-made structures may be written without hyphens.

(25) 남산: Νάμσαν, 독도: Ντόκτο, 경복궁: Γκιόνγκμποκουνγκ

7. Verification of the Practicality of the Transcription System

To verify that this transcription system is plausible, a simple experiment has organised. The following 15 proper nouns are selected randomly from the list of examples of Section 8, and the transcriptions in Greek Alphabet using my system are prepared. Also, the wrong transcription based on the romanisation of the Korean words, which was mainly used until now, is reconstituted by the analysis from the Section 2 and prepared.

Then, the native Greek speaker who does not have any knowledge of the Korean language are instructed to read these transcriptions.

No.	Korean	RR-Based Transcription (Reconstituted)	Greek Transcription
1	현충사	Χυεοντσουνγκσά	Χιόντσουνγκσα
2	독립문	Ντονγκνιμμούν	Ντόνγκνιμουν
3	천안	Τσεονάν	Τσόναν
4	청주	Τσεονγκγιού	Τσόνγκτζου
5	순창	Σουντσάνγκ	Σούντσανγκ
6	춘천	Τσουντσεόν	Τσούντσον
7	불국사	Μπουλγκουκσά	Μπούλγκουκσα
8	의정부	Ουιγιεονγκμπού	Ούιτζονγκμπου
9	서귀포	Σεογκουιπό	Σόγκουιπο
10	금강	Γκεουμγκάνγκ	Γκούμγκανγκ
11	집현전	Γιπχυεονγιεόν	Τζίπιοντζον
12	제주	Γιεγιού	Τζέτζου
13	대전	Νταεγιεόν	Ντέτζον
14	해운대	Χαεουννταέ	Χέουντε
15	철원	Τσεοργουόν	Τσόρουον

After that, the 20 native Korean speakers listened to the recordings of the Greek speaker to guess what was the original words and sentences in Korean language. However, these 20 people are separated into the 2 groups, 10 people in each group, and listened to RR-Based transcription (Type A), and in my Greek transcription (Type B), respectively. Recordings read each word twice in the interval of 2 seconds, and new word is read after 3 seconds.

	RR-	Based Tr	anscript	ion (Typ	e A)	My Transcription (Type B)				
Participant	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Score	2	4	5	7	10	9	10	11	12	14
Average			5.6/15					11.2/15	•	

The chart above shows the result of the experiment with RR-based transcription (Type A), and my new transcription system (Type B). We can see that people can guess the word correctly at the twice of chance in my transcription system than the previous RR-based transcription.

Corrects\No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Type A (Out of 5)	0	4	2	0	4	2	5	3	1	1	1	2	2	0	1
Type B (Out of 5)	1	2	5	3	2	5	5	5	5	1	5	5	5	2	5
Total (Out of 10)	1	6	7	3	6	7	10	8	6	2	6	7	7	2	6

When we look through each words, we can observe that more than half of the participants got wrong at word no. 1, 2, 5, 10, and 14 even listening to the recordings based on my transcription system. The common characteristics of the word no. 1, 2, 5, and 10 is that it contains letter combination $\langle v\gamma \kappa \rangle$ [ŋk], where it should be pronounced as [ŋ] in the Korean language, seems to lead confusion to the participants. Word no. 2 – Xέουντε [çeude] – was also seems to be hard to be guessed by the participants because of the sound difference of the original letter " \exists " [hɛ] and " χ ɛ" [çe], and because of the missing final consonant sound [n] in the Greek transcription. These issues have their origin at the fundamental pronunciation difference between Korean and Greek language, therefore it's hard to make better system to completely get rid out of these issues.

One interesting result is that there exist two words which the participants of Type A guessed better than the participants of Type B – word no. 2, and 5. It's interesting since only difference of the pronunciation of these words in each type is different location of stress. In Type A, two words are pronounced as [doŋkniˈmun], and [sunˈtsaŋk], while in Type B it is pronounced as [ˈdoŋknimun], and [ˈsuntsaŋk]. This should be further investigated by more test cases.

To sum up, we can see that participants understood twice as many words when they listened to the transcription based on my system, comparing to the previous transcription based on RR system. There were some words that many participants guessed incorrectly, but it's because of the fundamental pronunciation difference of two languages. Therefore, it can be said that although it cannot exactly transcribe the Korean words due to fundamental pronunciation difference of two languages, it increased the rate of correct answer drastically, and my transcription system has greater plausibility comparing to the previous RR-based practice.

8. Conclusion

In this research, the very first transcription method of the Korean Language into the Greek Alphabet has been proposed and discussed, as opposed to the previous practice of transcribing it based on the RR system. Although the Korean words cannot be transcribed exactly into the Greek alphabet due to the fundamental pronunciation difference between two languages, the new transcription method proposed here are focused to transcribe the Korean words as precise as possible in the pronunciation. This new method has then verified by the simple experiment that it drastically increased the intelligibility of the words. This system must also be selected as a standard in Greece and Cyprus of transcribing the Korean language into the Greek Alphabet to avoid further confusion of both Greeks and Korean.

9. References

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Appendix. Some Examples of the Transcription

Korean	Pron.	IPA	RR	RR-Based Transcription (Reconstituted)	Greek Transcription
광희문	[광히문]	[kwaŋ.hi.mun]	Gwanghuimun	Γκουανγκχουιμούν	Γκουάγχιμουν
구미	[구미]	[ku.mi]	Gumi	Γκουμί	Γκούμι
영동	[영동]	[jʌŋ.doŋ]	Yeongdong	Υεονγκντόνγκ	Γιόνγκντονγκ
옥천	[옥천]	[ok.tchʌn]	Okcheon	Οκτσεόν	Όκτσον
합덕	[합떡]	[haṗ.t̪ʌk̚]	Hapdeok	Χαπντεόκ	Χάπτοκ
호법	[호ː법]	[hoː.bʌpᠯ]	Hobeop	Χομπεόπ	Χόμποπ
월곶	[월곧]	[wʌl.got]	Wolgot	Γουολγκότ	Ουόλγκοτ
한밭	[한받]	[han.bat]	Hanbat	Χανμπάτ	Χάνμπατ
구리	[구리]	[ku.ri]	Guri	Γκουρί	Γκούρι
설악	[서락]	[sʰʌ.ɾak̄]	Seorak	Σεοράκ	Σόρακ
칠곡	[칠곡]	[tcʰil.gok]	Chilgok	Τσιλγκόκ	Τσίλγκοκ
임실	[임ː실]	[iːm.sʰil]	Imsil	Ιμσίλ	Ίμσιλ
울릉	[울릉]	[ul.lɯŋ]	Ulleung	Ουλλεούνγκ	Ούλουνγκ
대관령	[대ː괄령]	[tɛː.gwal.ljʌŋ]	Daegwallyeong	Νταεγκουαλλυεόνγκ	Ντέγκουαλιονγκ
백마	[뱅마]	[pɛŋ.ma]	Baengma	Μπαενγκμά	Μπένγκμα
신문로	[신문노]	[s ^h in.mun.no]	Sinmunno	Σινμουννό	Σίνμουνο
종로	[종노]	[tcoŋ.no]	Jongno	Γιονγκνό	Τζόνγκνο
왕십리	[왕심니]	[waŋ.sʰim.ni]	Wangsimni	Γουανγκσιμνί	Ουάνγκσιμνι
별내	[별래]	[pjʌl.lɛ]	Byeollae	Μπυεολλαέ	Μπιόλε
신라	[실라]	[s ^h il.la]	Silla	Σιλλά	Σίλα
학여울	[항녀울]	[haŋ.njʌ.ul]	Hangnyeoul	Χανγκνυεοούλ	Χάνγκνιοουλ
해운대	[해운대]	[hɛ.un.dɛ]	Haeundae	Χαεουννταέ	Χέουντε
광주	[광주]	[kwaŋ.dʑu]	Gwangju	Γκουανγκγιού	Γκουάνγκτζου
전주	[전주]	[tɕʌn.dʑu]	Jeonju	Γιεονγιού	Τζόντζου
천안	[처난]	[tc ^h ʌ.nan]	Cheonan	Τσεονάν	Τσόναν
경주	[경ː주]	[kjəːŋ.ʤu]	Gyeongju	Γκυεονγκγιού	Γκιόνγκτζου
대구	[대구]	[tɛ.gu]	Daegu	Νταεγκού	Ντέγκου
제주	[제 ː 주]	[tceː.dzu]	Jeju	Γιεγιού	Τζέτζου
서귀포	[서귀포]	[s ^h ʌ.gwi.p ^h o]	Seogwipo	Σεογκουιπό	Σόγκουιπο
대전	[대전]	[tɛ.dʑʌn]	Daejeon	Νταεγιεόν	Ντέτζον
청주	[청주]	[tcʰʌŋ.ʤu]	Cheongju	Τσεονγκγιού	Τσόνγκτζου
성남	[성남]	[sʰʌŋ.nam]	Seongnam	Σεονγκνάμ	Σόνγκναμ
인천	[인천]	[in.tc ^h ʌn]	Incheon	Ιντσεόν	Ίντσον
의정부	[의정부]	[պi.ʤʌŋ.bu]	Uijeongbu	Ουιγιεονγκμπού	Ούιτζονγκμπου
춘천	[춘천]	[tchun.tchan]	Chuncheon	Τσουντσεόν	Τσούντσον

철원	[처뤈]	[tc ^h a.rwan]	Cheorwon	Τσεοργουόν	Τσόρουον	
속초	[속초]	[shok.tcho]	Sokcho	Σοκτσό	Σόκτσο	
강릉	[강능]	[kaŋ.nɯŋ]	Gangneung	Γκανγκνεούνγκ	Γκάνγκνουνγκ	
동해	[동해]	[toŋ.hε]	Donghae	Ντονγκχαέ	Ντόγχε	
충주	[충주]	[tcʰuŋ.dzu]	Chungju	Τσουνγκγιού	Τσούνγκτζου	
김해	[김해]	[kim.hɛ]	Gimhae	Γκιμχαέ	Γκίμχε	
경기도	[경기도]	[kjʌŋ.gi.do]	Gyeonggi-do	Γκυεονγκγκί-ντο	Γκιόνγκι-ντο	
강원도	[강원도]	[kaŋ.won.do]	Gangwon-do	Γκανγκγουόν-ντο	Γκάνγουον-ντο	
충청북도	[충청북또]	[tcʰuŋ.tcʰʌŋ.buk̄.t̪o]	Chungcheongbuk- do	Τσουνγκτσεονγκμπούκ- ντο	Τσούνγκτσονγκμπουκ- ντο	
충청남도	[충청남도]	[tchuŋ.tchʌŋ.nam.do]	Chungcheongnam-do	Τσουνγκτσεονγκνάμ- ντο	Τσούνγκτσονγκναμ- ντο	
전라북도	[절라북또]	[tɛʌl.la.buk̄.t̞o]	Jeollabuk-do	Γιεολλαμπούκ-ντο	Τζόλαμπουκ-ντο	
전라남도	[절라남도]	[tɛʌl.la.nam.do]	Jeollanam-do	Γιεολλανάμ-ντο	Τζόλαναμ-ντο	
경상북도	[경상북또]	[kjʌŋ.sʰaŋ.buk̄.t̪o]	Gyeongsangbuk- do	Γκυεονγκσανγκμπούκ- ντο	Γκιόνγκσανγκμπουκ- ντο	
경상남도	[경상남도]	[kjʌŋ.sʰaŋ.nam.do]	Gyeongsangnam- do	Γκυεονγκσανγκνάμ-ντο	Γκιόνγκσανγκναμ-ντο	
부산	[부산]	[pu.s ^h an]	Busan	Μπουσάν	Μπούσαν	
묵호	[무코]	[mu.ko]	Muk <i>h</i> o	Μουκχό	Μούκο	
집현전	[지편전]	[tci.p ^h jʌn.dzʌn]	Jip <i>h</i> yeonjeon	Γιπχυεονγιεόν	Τζίπιοντζον	
압구정	[압꾸정]	[ap.ku.dzʌŋ]	Ap <i>g</i> ujeong	Απγκουγιεόνγκ	Άπκουτζονγκ	
죽변	[죽뼌]	[tcuk.pʌn]	Juk <i>b</i> yeon	Γιουκμπυεόν	Τζούκπιον	
낙성대	[낙썽대]	[nak̄.s̞ʌŋ.dε]	Nakseongdae	Νακσεονγκνταέ	Νάκσονγκντε	
합정	[합쩡]	[hap.tɕʌŋ]	Hap <i>j</i> eong	Χαπγιεόνγκ	Χάπτσονγκ	
팔당	[팔땅]	[pʰal.t̪aŋ]	Pal <i>d</i> ang	Παλντάνγκ	Πάλτανγκ	
울산	[울싼]	[ul.san]	Ulsan	Ουλσάν	Ούλσαν	
중앙	[중앙]	[tcuŋ.aŋ]	Jungang	Γιουνγκάνγκ	Τζούνγανγκ	
반구대	[반구대]	[pan.gu.dε]	Ban-gudae	Μπαν-γκουνταέ	Μπάνγκουντε	
세종	[세 ː 종]	[sʰeː.ʤoŋ]	Sejong	Σεγιόνγκ	Σέτζονγκ	
양주군	[양주군]	[jaŋ.ʤu.gun]	Yangju-gun	Υανγκγιού-γκουν	Γιάνγκτζου-γκουν	
도봉구	[도봉구]	[to.boŋ.gu]	Dobong-gu	Ντομπόνγκ-γκου	Ντόμπονγκ-γκου	
신창읍	[신창읍]	[sʰin.tɕʰaŋ.ɯp̚]	Sinchang-eup	Σιντσάνγκ-εουπ	Σίντσανγκ-ουπ	
삼죽면	[삼중면]	[sʰam.ʤuŋ.mjʌn]	Samjuk-myeon	Σαμγιούκ-μυεον	Σάμτζουκ-μιον	
인왕리	[이놩니]	[i.nwaŋ.ni]	Inwang-ri	Ινγουάνγκ-ρι	Ίνουανγκ-ρι	
당산동	[당산동]	[taŋ.sʰan.doŋ]	Dangsan-dong	Ντανγκσάν-ντονγκ	Ντάνγκσαν-ντονγκ	
봉천 1 동	[봉ː천일똥]	[poːŋ.tɕʰʌn il.t̪oŋ]	Bongcheon 1(il)-dong	Μπονγκτσεόν 1(ιλ)- ντονγκ	Μπόνγκτσον 1(ιλ)- ντονγκ	
종로 2 가	[종노이ː가]	[tcoŋ.no iː.ga]	Jongno 2(i)-ga	Γιονγκνό 2(ι)-γκα	Τζόνγκνο 2(ι)-γκα	
퇴계로3가	[퇴ː계로삼가]	[tʰøː.gje.ɾo sʰam.ga]	Toegyero 3(sam)- ga	Τοεγκυερό 3(σαμ)-γκα	Τοέγκιερο 3(σαμ)-γκα	

청주시	[청주시]	[tchaŋ.dzu.shi]	Cheongju-si	Τσεονγκγιού-σι	Τσόνγκτζου-σι
함평군	[함평군]	[ham.p ^h ʌŋ.gun]	Hampyeong-gun	Χαμπυεόνγκ-γκουν	Χάμπιονγκ-γκουν
순창읍	[순창읍]	[sʰun.tɕʰaŋ.wp̚]	Sunchang-eup	Σουντσάνγκ-εουπ	Σούντσανγκ-ουπ
남산	[남산]	[nam.shan]	Namsan	Ναμσάν	Νάμσαν
속리산	[송니산]	[shon.ni.shan]	Songnisan	Σονγκνισάν	Σόνγκνισαν
금강	[금강]	[kwm.gaŋ]	Geumgang	Γκεουμγκάνγκ	Γκούμγκανγκ
독도	[독또]	[tok.to]	Dokdo	Ντοκντό	Ντόκτο
경복궁	[경ː복꿍]	[kjəːŋ.bokk.kuŋ]	Gyeongbokgung	Γκυεονγκμποκγκούνγκ	Γκιόνγκμποκουνγκ
무량수전	[무량수전]	[mu.rjaŋ.sʰu.ʤʌn]	Muryangsujeon	Μουρυανγκσουγιεόν	Μούριανγκσουτζον
연화교	[연화교]	[jʌn.hwa.gjo]	Yeonhwagyo	Υεονχγουαγκυό	Γιόνχουαγκιο
극락전	[궁낙쩐]	[kɯŋ.nak̄.tɕʌn]	Geungnakjeon	Γκεουνγκνακγιεόν	Γκούνγκνακτσον
안압지	[아ː납찌]	[aː.nap̊.tçi]	Anapji	Αναπγί	Άναπτσι
남한산성	[남한산성]	[nam.han.s ^h an.s ^h ʌŋ]	Namhansanseong	Ναμχανσανσεόνγκ	Νάμχανσανσονγκ
화랑대	[화랑대]	[hwa.raŋ.dɛ]	Hwarangdae	Χουαρανγκνταέ	Χουάρανγκντε
불국사	[불국싸]	[pul.guk.sa]	Bulguksa	Μπουλγκουκσά	Μπούλγκουκσα
현충사	[현ː충사]	[hjəːn.tcʰuŋ.sʰa]	Hyeonchungsa	Χυεοντσουνγκσά	Χιόντσουνγκσα
독립문	[동납문]	[toŋ.nipᠯ.mun]	Dongnimmun	Ντονγκνιμμούν	Ντόνγκνιμουν
오죽헌	[오주컨]	[o.dzu.kʌn]	Ojukheon	Ογιουκχεόν	Ότζουκον
촉석루	[촉썽누]	[tcʰok̄.s̪ʌŋ.nu]	Chokseongnu	Τσοκσεονγκνού	Τσόκσονγκνου
종묘	[종묘]	[tcoŋ.mjo]	Jongmyo	Γιονγκμυό	Τζόνγκμιο
다보탑	[다보탑]	[ta.bo.tʰap̚]	Dabotap	Νταμποτάπ	Ντάμποταπ
행신	[행ː신]	[hɛːŋ.sʰin]	Haengsin	Χαενγκσίν	Χένγκσιν
민용하	[민용하]	[min joŋ ha]	Min Yongha (Yong-ha)	Μιν Υόνγκχα (Υονγκ- χα)	Μιν Γιόγχα (Γιόνγκ- χα)
송나리	[송나리]	[sʰoŋ na ri]	Song Nari (Na-ri)	Σονγκ Νάρι (Να-ρι)	Σονγκ Νάρι (Νά-ρι)
한복남	[한 복 남]	[han bok nam]	Han Boknam (Bok-nam)	Χαν Μπόκναμ (Μποκ- ναμ)	Χαν Μπόκναμ (Μπόκ- ναμ)
홍빛나	[홍 빈 나]	[hoŋ bit na]	Hong Bitna (Bit- na)	Χονγκ Μπίτνα (Μπιτ- να)	Χονγκ Μπίτνα (Μπίτ- να)