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Chinese L1 Linguistic Features

		1	
Category	Sub-category	ID	Linguistic Features
		1	percentage of most-common characters
		2	percentage of second-most-common characters
	Character	3	percentage of all common-characters
	complexity	4	percentage of low-stroke-number characters
	complexity	5	percentage of medium-stroke-number characters
		6	percentage of high-stroke-number characters
		7	average number of strokes per word
		8	average number of characters per word
		9	average number of characters per unique word
		10	number of two-character words
		11	percentage of two-character words
Shallow	W11	12	number of three-character words
Features	Word complexity	13	percentage of three-character words
reatures		14	number of four-character words
		15	percentage of four-character words
		16	number of five-up-character words
		17	percentage of five-up-character word
		18	average number of multi-character words per sentence
	Cantanaa	19	average number of words per sentence
	Sentence	20	average number of characters per sentence
	complexity	21	average number of characters (including punctuations, numerical, and
		21	symbols) per sentence
		22	number of characters
	Document length	23	number of characters (including punctuations, numerical, and
		23	symbols)
		24	percentage of adjectives
		25	percentage of unique adjectives
T 1	Adjectives	26	number of unique adjectives
Lexical Features		27	average number of adjectives per sentence
reatures		28	average number of unique adjectives per sentence
	Functional words	29	percentage of functional words
		30	percentage of unique functional words as document vocabulary

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		31	number of unique functional words
		32	average number of functional words per sentence
		33	average number of unique functional words per sentence
		34	percentage of verbs
		35	number of unique verbs
	Verbs	36	percentage of unique verbs
		37	average number of verbs per sentence
		38	average number of unique verbs per sentence
		39	percentage of general nouns
		40	number of unique general nouns
		41	percentage of unique general nouns
		42	average number of general nouns per sentence
		43	average number of unique general nouns per sentence
	Nouns	44	percentage of All-Nouns
		45	number of unique All-Nouns
		46	percentage of unique All-Nouns
		47	average number of All-Nouns per sentence
		48	average number of unique All-Nouns per sentence
		49	percentage of content words
		50	number of unique content words
	Content words	51	percentage of unique content words
		52	average number of content words per sentence
		53	average number of unique content words per sentence
		54	percentage of idioms
	Idioms	55	number of unique idioms
		56	percentage of unique idioms
		57	average number of idioms per sentence
		58	average number of unique idioms per sentence
		59	percentage of adverbs
		60	percentage of unique adverbs
	Adverbs	61	number of unique adverbs
		62	average number of adverbs per sentence
		63	average number of unique adverbs per sentence
	Phrases	64	average number of noun phrases per sentence
Syntactic		65	average number of verbal phrases per sentence
Features		66	total number of noun phrases
		67	total number of verbal phrases
			2

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		68	total number of prepositional phrases
		69	average length of noun phrases
		70	average length of verbal phrases
		71	average length of prepositional phrases
		72	average number of sentences with clauses
		73	average number of sentences without clauses
	Clauses	74	average number of clauses per sentence
		75	number of punctuation-clauses per sentence
		76	average number of words per punctuation-clause
		77	average number of sentences
	Sentences	78	average height of parse tree
	Sentences	79	total number of dependency distances per sentence
		80	average number of dependency distances per sentence
		81	total number of entities
		82	total number of unique entities
		83	percentage of Entities
		84	percentage of unique entities
		85	average number of entities per sentence
	Entity Donaity	86	average number of unique entities per sentence
	Entity Density	87	percentage of named entities
		88	average number of named entities per sentence
		89	percentage of named entities against total number of entities
		90	percentage of Not-NE nouns
Discourse		91	average number of Not-NE nouns per sentence
Features		92	average number of Not-Entity nouns per sentence
		93	percentage of conjunctions against total number of words
		94	number of unique conjunctions
		95	percentage of unique conjunctions as document vocabulary
		96	average number of conjunctions per sentence
	Cohesion	97	average number of unique conjunctions per sentence
		98	percentage of pronouns
		99	number of unique pronouns
		100	percentage of unique pronouns
		101	average number of pronouns per sentence
		102	average number of unique pronouns per sentence

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Chinese L2 Linguistic Features

Category	Sub-category	ID	Linguistic Features
	3 7	1	percentage of most-common characters
		2	percentage of second-most-common characters
		3	percentage of all common-characters
		4	percentage of low-stroke-number characters
		5	percentage of medium-stroke-number characters
	Character	6	percentage of high-stroke-number characters
	Complexity	7	average number of strokes per word
		8	percentage of HSK1 to HSK3-characters per sentence
		9	percentage of HSK4 to HSK5-characters per sentence
		10	percentage of HSK6-characters per sentence
		11	percentage of Not-HSK-characters per sentence
		12	average number of characters per word
		13	average number of characters per unique word
		14	number of two-character words
C111		15	percentage of two-character words
Shallow Features		16	number of three-character words
reatures		17	percentage of three-character words
	Word Complexity	18	number of four-character words
		19	percentage of four-character words
		20	number of five-up-character words
		21	percentage of five-up-character word
		22	percentage of HSK1 to HSK3-words per sentence
		23	percentage of HSK4 to HSK5-words per sentence
		24	percentage of HSK6-words per sentence
		25	percentage of Not-HSK-words per sentence
		26	average number of multi-character words per sentence
	Sentence	27	average number of words per sentence
	Complexity	28	average number of characters per sentence
		29	average number of characters (including punctuations,
		2)	numerical, and symbols) per sentence
	Document Length	30	number of characters

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Functional Words 39			31	number of characters (including punctuations, numerical, and symbols)
Adjectives 34 number of unique adjectives 35 average number of adjectives per sentence 36 average number of unique adjectives per sentence 37 percentage of functional words 38 percentage of unique functional words as document vocabulary 39 number of unique functional words as document vocabulary 40 average number of unique functional words per sentence 41 average number of unique functional words per sentence 42 percentage of verbs 43 number of unique verbs 44 percentage of unique verbs 45 average number of verbs per sentence 46 average number of unique verbs per sentence 47 percentage of general nouns 48 number of unique general nouns 49 percentage of unique general nouns 50 average number of unique general nouns per sentence 51 average number of unique general nouns per sentence 52 percentage of All-Nouns 53 number of unique All-Nouns 54 percentage of unique All-Nouns 55 average number of unique All-Nouns per sentence 56 average number of unique All-Nouns per sentence 57 percentage of unique content words 58 number of unique content words 59 percentage of unique content words 50 average number of unique content words 50 average number of unique content words 51 average number of unique content words 52 percentage of unique content words 53 number of unique content words 54 percentage of unique content words 55 number of unique content words 60 average number of unique content words 61 average number of unique content words per sentence 62 percentage of unique content words per sentence 63 number of unique idioms 64 percentage of unique idioms 65 average number of unique idioms 66 average number of unique idioms			32	percentage of adjectives
35 average number of adjectives per sentence 36 average number of unique adjectives per sentence 37 percentage of functional words 38 percentage of unique functional words as document vocabulary 39 number of unique functional words as document vocabulary 40 average number of functional words per sentence 41 average number of unique functional words per sentence 42 percentage of verbs 43 number of unique verbs 44 percentage of unique verbs 45 average number of unique verbs per sentence 46 average number of unique verbs per sentence 47 percentage of general nouns 48 number of unique general nouns 48 number of unique general nouns 49 percentage of unique general nouns per sentence 50 average number of unique general nouns per sentence 51 average number of unique general nouns per sentence 52 percentage of All-Nouns 53 number of unique All-Nouns 54 percentage of unique All-Nouns 55 average number of unique All-Nouns 56 average number of unique All-Nouns per sentence 57 percentage of content words 58 number of unique content words 59 percentage of unique content words 50 average number of unique content words 50 average number of unique idioms 50 average number of unique idioms 50 average number of idioms per sentence 50 average number of idioms 50 average number of			33	percentage of unique adjectives
Functional Words Functional Words 7		Adjectives	34	number of unique adjectives
Functional Words 38 percentage of functional words as document vocabulary 19 number of unique functional words as document vocabulary 19 number of unique functional words per sentence 40 average number of unique functional words per sentence 41 average number of unique functional words per sentence 42 percentage of verbs 43 number of unique verbs 44 percentage of unique verbs 45 average number of verbs per sentence 46 average number of unique verbs per sentence 47 percentage of general nouns 48 number of unique general nouns 49 percentage of unique general nouns per sentence 50 average number of unique general nouns per sentence 51 average number of unique general nouns per sentence 52 percentage of All-Nouns 53 number of unique All-Nouns 54 percentage of unique All-Nouns per sentence 55 average number of unique All-Nouns per sentence 56 average number of unique content words 58 number of unique content words 59 percentage of unique content words 60 average number of content words per sentence 40 percentage of unique content words per sentence 50 percentage of unique content words 51 percentage of unique content words 52 percentage of unique content words 53 number of unique content words 54 percentage of unique content words 55 percentage of unique content words 56 average number of unique content words 57 percentage of unique content words 60 average number of unique content words per sentence 61 average number of unique idioms 62 percentage of unique idioms 63 number of unique idioms 64 percentage of unique idioms 65 average number of idioms per sentence			35	average number of adjectives per sentence
Functional Words Functional Words Functional Words 39 number of unique functional words as document vocabulary 40 average number of functional words per sentence 41 average number of unique functional words per sentence 42 percentage of verbs 43 number of unique verbs 44 percentage of unique verbs 45 average number of unique verbs per sentence 46 average number of unique verbs per sentence 47 percentage of general nouns 48 number of unique general nouns 49 percentage of unique general nouns per sentence 50 average number of unique general nouns per sentence 51 average number of unique general nouns per sentence 52 percentage of All-Nouns 53 number of unique All-Nouns 54 percentage of unique All-Nouns per sentence 55 average number of unique All-Nouns per sentence 56 average number of unique content words 58 number of unique content words 59 percentage of unique content words 60 average number of unique content words per sentence 61 average number of unique content words per sentence 62 percentage of didoms 63 number of unique idioms 64 percentage of unique idioms 65 average number of idioms per sentence			36	average number of unique adjectives per sentence
Functional Words 39			37	percentage of functional words
40 average number of functional words per sentence 41 average number of unique functional words per sentence 42 percentage of verbs 43 number of unique verbs 44 percentage of unique verbs 45 average number of unique verbs per sentence 46 average number of unique verbs per sentence 47 percentage of general nouns 48 number of unique general nouns 49 percentage of unique general nouns 40 average number of general nouns per sentence 50 average number of unique general nouns per sentence 51 average number of unique general nouns per sentence 52 percentage of All-Nouns 53 number of unique All-Nouns 54 percentage of unique All-Nouns per sentence 56 average number of unique All-Nouns per sentence 57 percentage of unique All-Nouns per sentence 58 number of unique content words 59 percentage of unique content words 60 average number of unique content words per sentence 61 average number of unique content words per sentence 62 percentage of idioms 63 number of unique idioms 64 percentage of unique idioms 65 average number of idioms per sentence			38	percentage of unique functional words as document vocabulary
All average number of unique functional words per sentence		Functional Words	39	number of unique functional words
Verbs 42 percentage of verbs 43 number of unique verbs 44 percentage of unique verbs 45 average number of verbs per sentence 46 average number of unique verbs per sentence 47 percentage of general nouns 48 number of unique general nouns 49 percentage of unique general nouns 50 average number of unique general nouns per sentence 51 average number of unique general nouns per sentence 52 percentage of All-Nouns 53 number of unique All-Nouns 54 percentage of unique All-Nouns 55 average number of unique All-Nouns per sentence 56 average number of unique All-Nouns per sentence 57 percentage of ontent words 58 number of unique content words 59 percentage of unique content words 60 average number of unique content words 61 average number of unique content words per sentence 62 percentage of unique content words per sentence 63 number of unique content words per sentence 64 percentage of unique idioms 65 average number of unique idioms 64 percentage of unique idioms 65 average number of idioms per sentence			40	average number of functional words per sentence
Verbs 43 number of unique verbs 44 percentage of unique verbs 45 average number of verbs per sentence 46 average number of unique verbs per sentence 47 percentage of general nouns 48 number of unique general nouns 49 percentage of unique general nouns per sentence 50 average number of general nouns per sentence 51 average number of unique general nouns per sentence 52 percentage of All-Nouns 53 number of unique All-Nouns 54 percentage of unique All-Nouns 55 average number of All-Nouns per sentence 56 average number of unique All-Nouns per sentence 57 percentage of content words 58 number of unique content words 59 percentage of unique content words 60 average number of content words per sentence 61 average number of unique content words per sentence 62 percentage of idioms 63 number of unique idioms 64 percentage of unique idioms 65 average number of idioms per sentence			41	average number of unique functional words per sentence
Verbs 44 percentage of unique verbs 45 average number of verbs per sentence 46 average number of unique verbs per sentence 47 percentage of general nouns 48 number of unique general nouns 49 percentage of unique general nouns 50 average number of general nouns per sentence 51 average number of unique general nouns per sentence 52 percentage of All-Nouns 53 number of unique All-Nouns 54 percentage of unique All-Nouns 55 average number of All-Nouns per sentence 56 average number of unique All-Nouns per sentence 57 percentage of content words 58 number of unique content words 59 percentage of unique content words 60 average number of content words per sentence 61 average number of unique content words per sentence 62 percentage of idioms 63 number of unique idioms 64 percentage of unique idioms 65 average number of idioms per sentence			42	percentage of verbs
Lexical Features Nouns Lexical Features Nouns As average number of unique verbs per sentence 47 percentage of general nouns 48 number of unique general nouns 49 percentage of unique general nouns 50 average number of general nouns per sentence 51 average number of unique general nouns per sentence 52 percentage of All-Nouns 53 number of unique All-Nouns 54 percentage of unique All-Nouns 55 average number of unique All-Nouns 56 average number of unique All-Nouns per sentence 57 percentage of content words 88 number of unique content words 79 percentage of unique content words 60 average number of content words per sentence 61 average number of unique content words per sentence 62 percentage of idioms 63 number of unique idioms 64 percentage of unique idioms 65 average number of idioms per sentence			43	number of unique verbs
Lexical Features Lexical Features As number of unique general nouns 48 number of unique general nouns 49 percentage of unique general nouns 50 average number of general nouns per sentence 51 average number of unique general nouns per sentence 52 percentage of All-Nouns 53 number of unique All-Nouns 54 percentage of unique All-Nouns 55 average number of unique All-Nouns per sentence 56 average number of unique All-Nouns per sentence 57 percentage of content words 58 number of unique content words 59 percentage of unique content words 60 average number of content words per sentence 61 average number of unique content words per sentence 62 percentage of idioms 63 number of unique idioms 64 percentage of unique idioms 65 average number of idioms per sentence		Verbs	44	percentage of unique verbs
Lexical Features Nouns As number of unique general nouns 48 number of unique general nouns 49 percentage of unique general nouns 50 average number of general nouns per sentence 51 average number of unique general nouns per sentence 52 percentage of All-Nouns 53 number of unique All-Nouns 54 percentage of unique All-Nouns 55 average number of All-Nouns per sentence 56 average number of unique All-Nouns per sentence 57 percentage of content words 58 number of unique content words 59 percentage of unique content words 60 average number of content words per sentence 61 average number of unique content words per sentence 62 percentage of idioms 63 number of unique idioms 64 percentage of unique idioms 65 average number of idioms per sentence			45	average number of verbs per sentence
Lexical Features Nouns As number of unique general nouns percentage of unique general nouns average number of general nouns per sentence average number of unique general nouns per sentence 51 average number of unique general nouns per sentence 52 percentage of All-Nouns 53 number of unique All-Nouns 54 percentage of unique All-Nouns 55 average number of unique All-Nouns per sentence 56 average number of unique All-Nouns per sentence 57 percentage of content words 58 number of unique content words 59 percentage of unique content words 60 average number of content words per sentence average number of unique content words per sentence 61 average number of unique content words per sentence 62 percentage of idioms 63 number of unique idioms 64 percentage of unique idioms 65 average number of idioms per sentence			46	average number of unique verbs per sentence
Features Nouns Nouns Nouns Nouns Appercentage of unique general nouns per sentence average number of unique general nouns per sentence 51 average number of unique general nouns per sentence 52 percentage of All-Nouns 53 number of unique All-Nouns 54 percentage of unique All-Nouns 55 average number of All-Nouns per sentence 56 average number of unique All-Nouns per sentence 57 percentage of content words 58 number of unique content words 59 percentage of unique content words 60 average number of content words per sentence 61 average number of unique content words per sentence 62 percentage of idioms 63 number of unique idioms 64 percentage of unique idioms 65 average number of idioms per sentence			47	percentage of general nouns
Features Nouns Nouns	.		48	number of unique general nouns
Nouns So		Nouns	49	percentage of unique general nouns
Nouns 52 percentage of All-Nouns 53 number of unique All-Nouns 54 percentage of unique All-Nouns 55 average number of All-Nouns per sentence 56 average number of unique All-Nouns per sentence 57 percentage of content words 58 number of unique content words 59 percentage of unique content words 60 average number of content words per sentence 61 average number of unique content words per sentence 62 percentage of idioms 63 number of unique idioms 64 percentage of unique idioms 65 average number of idioms per sentence	reatures		50	average number of general nouns per sentence
52 percentage of All-Nouns 53 number of unique All-Nouns 54 percentage of unique All-Nouns 55 average number of All-Nouns per sentence 56 average number of unique All-Nouns per sentence 57 percentage of content words 58 number of unique content words 59 percentage of unique content words 60 average number of content words per sentence 61 average number of unique content words per sentence 62 percentage of idioms 63 number of unique idioms 64 percentage of unique idioms 65 average number of idioms per sentence			51	average number of unique general nouns per sentence
54 percentage of unique All-Nouns 55 average number of All-Nouns per sentence 56 average number of unique All-Nouns per sentence 57 percentage of content words 58 number of unique content words 59 percentage of unique content words 60 average number of content words per sentence 61 average number of unique content words per sentence 62 percentage of idioms 63 number of unique idioms 64 percentage of unique idioms 65 average number of idioms per sentence			52	percentage of All-Nouns
55 average number of All-Nouns per sentence 56 average number of unique All-Nouns per sentence 57 percentage of content words 58 number of unique content words 59 percentage of unique content words 60 average number of content words per sentence 61 average number of unique content words per sentence 62 percentage of idioms 63 number of unique idioms 64 percentage of unique idioms 65 average number of idioms per sentence			53	number of unique All-Nouns
56 average number of unique All-Nouns per sentence 57 percentage of content words 58 number of unique content words 59 percentage of unique content words 60 average number of content words per sentence 61 average number of unique content words per sentence 62 percentage of idioms 63 number of unique idioms 64 percentage of unique idioms 65 average number of idioms per sentence			54	percentage of unique All-Nouns
Content Words 57 percentage of content words 58 number of unique content words 59 percentage of unique content words 60 average number of content words per sentence 61 average number of unique content words per sentence 62 percentage of idioms 63 number of unique idioms 64 percentage of unique idioms 65 average number of idioms per sentence			55	average number of All-Nouns per sentence
Content Words 58 number of unique content words 59 percentage of unique content words 60 average number of content words per sentence 61 average number of unique content words per sentence 62 percentage of idioms 63 number of unique idioms 64 percentage of unique idioms 65 average number of idioms per sentence			56	average number of unique All-Nouns per sentence
Content Words 59 percentage of unique content words 60 average number of content words per sentence 61 average number of unique content words per sentence 62 percentage of idioms 63 number of unique idioms 64 percentage of unique idioms 65 average number of idioms per sentence			57	percentage of content words
60 average number of content words per sentence 61 average number of unique content words per sentence 62 percentage of idioms 63 number of unique idioms 64 percentage of unique idioms 65 average number of idioms per sentence			58	number of unique content words
61 average number of unique content words per sentence 62 percentage of idioms 63 number of unique idioms 64 percentage of unique idioms 65 average number of idioms per sentence		Content Words	59	percentage of unique content words
62 percentage of idioms 63 number of unique idioms 64 percentage of unique idioms 65 average number of idioms per sentence			60	average number of content words per sentence
63 number of unique idioms 64 percentage of unique idioms 65 average number of idioms per sentence			61	average number of unique content words per sentence
Idioms 64 percentage of unique idioms 65 average number of idioms per sentence			62	percentage of idioms
65 average number of idioms per sentence			63	number of unique idioms
		Idioms	64	percentage of unique idioms
66 guerage number of unique idiams per centence			65	average number of idioms per sentence
oo average number of unique idionis per sentence			66	average number of unique idioms per sentence

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		67	percentage of adverbs
		68	percentage of unique adverbs
	Adverbs	69	number of unique adverbs
		70	average number of adverbs per sentence
		71	average number of unique adverbs per sentence
		72	average number of noun phrases per sentence
		73	average number of verbal phrases per sentence
		74	total number of noun phrases
	DI.	75	total number of verbal phrases
	Phrases	76	total number of prepositional phrases
		77	average length of noun phrases
		78	average length of verbal phrases
		79	average length of prepositional phrases
Syntactic		80	average number of sentences with clauses
Features		81	average number of sentences without clauses
	Clauses	82	average number of clauses per sentence
		83	number of punctuation-clauses per sentence
		84	average number of words per punctuation-clause
		85	average number of sentences
		86	average height of parse tree
	Sentences	87	total number of dependency distances per sentence
		88	average number of dependency distances per sentence
		89	sentence complexity level
		90	total number of entities
		91	total number of unique entities
		92	percentage of Entities
		93	percentage of unique entities
		94	average number of entities per sentence
	E C D	95	average number of unique entities per sentence
Discourse	Entity Density Cohesion	96	percentage of named entities
Features		97	average number of named entities per sentence
		98	percentage of named entities against total number of entities
		99	percentage of Not-NE nouns
		100	average number of Not-NE nouns per sentence
		101	average number of Not-Entity nouns per sentence
		102	percentage of conjunctions against total number of words
		103	number of unique conjunctions

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	104	percentage of unique conjunctions as document vocabulary				
	105	average number of conjunctions per sentence				
	106	average number of unique conjunctions per sentence				
	107	percentage of pronouns				
	108	number of unique pronouns				
	109	percentage of unique pronouns				
Ī	110	average number of pronouns per sentence				
	111	average number of unique pronouns per sentence				

English 33 Linguistic Features

Category	ID	Linguistic Features
	1	Lexical Density (LD)
	2	Type-Token Ratio (TTR)
	3	Corrected TTR
	4	Root TTR (RTTR)
	5	Bilogarithmic TTR (LogTTR)
	6	Uber Index (Uber)
	7	Lexical Word Variation (LV)
	8	Verb Variation-1 (VV1)
Lexical Features	9	Squared VV1 (SVV1)
Lexical Features	10	Corrected VV1 (CVV1)
	11	Verb Variation 2 (VV2)
	12	Noun Variation (NV)
	13	Adjective Variation (AdjV)
	14	Adverb Variation (AdvV)
	15	Modifier Variation (ModV)
	16	Proportion of words in AWL (AWL)
	17	Avg. Num. Characters per word (NumChar)
	18	Avg. Num. Syllables per word (NumSyll)
	19	Mean length of a sentence
	20	average number of words per punctuation-clause
Court of Earth	21	number of punctuation-clauses per sentence
Syntactic Features	22	average number of subordinate clauses per punctuation clause
	23	average number of subordinate clauses per sentence
	24	average number of co-ordinate phrases per punctuation clause

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25	average number of co-ordinate phrases per sentence
26	average number of verb phrases per punctuation clause
27	average number of noun phrases per sentence
28	average number of verbal phrases per sentence
29	average number of prepositional phrases per sentence
30	average length of noun phrases
31	average length of verbal phrases
32	average length of prepositional phrases
 33	average height of parse tree