

Analysis of Preference of Tourist Destination using Twitter: Case Study on Theme Park in Seoul, South Korea



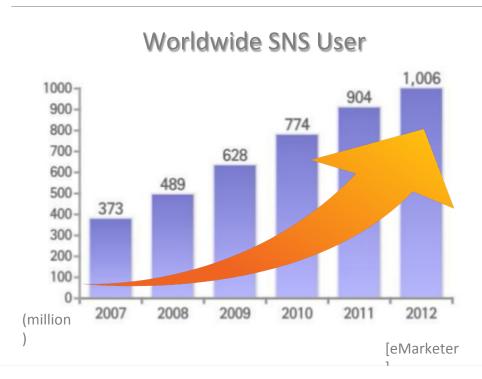
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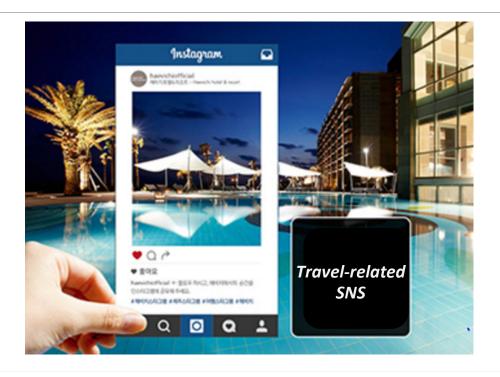
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Introduction



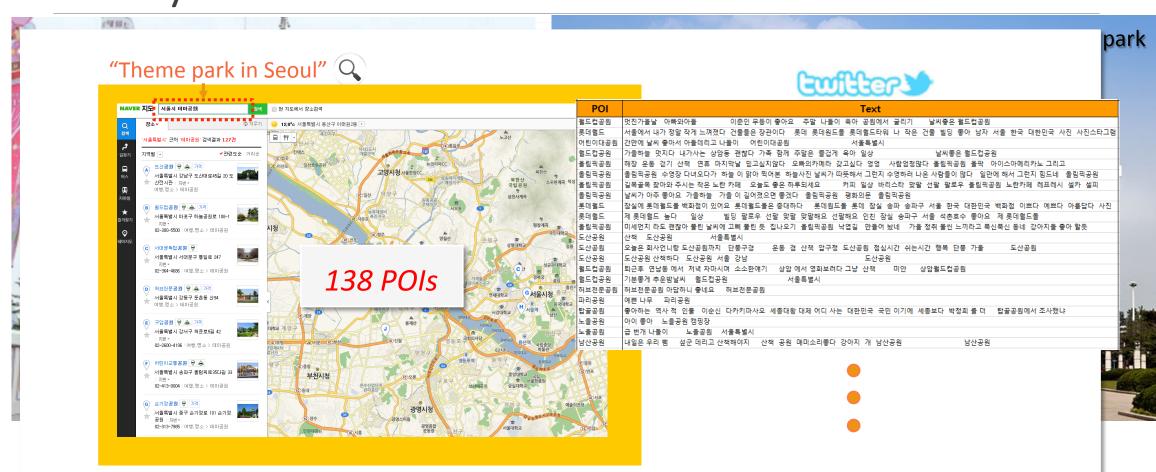


Studies have been conducted to analyze SNS for the purpose of recommending meaningful tourist destinations for tourists.

However, existing studies do not consider the opinion about a destination because they consider only the frequency of destination mentions.

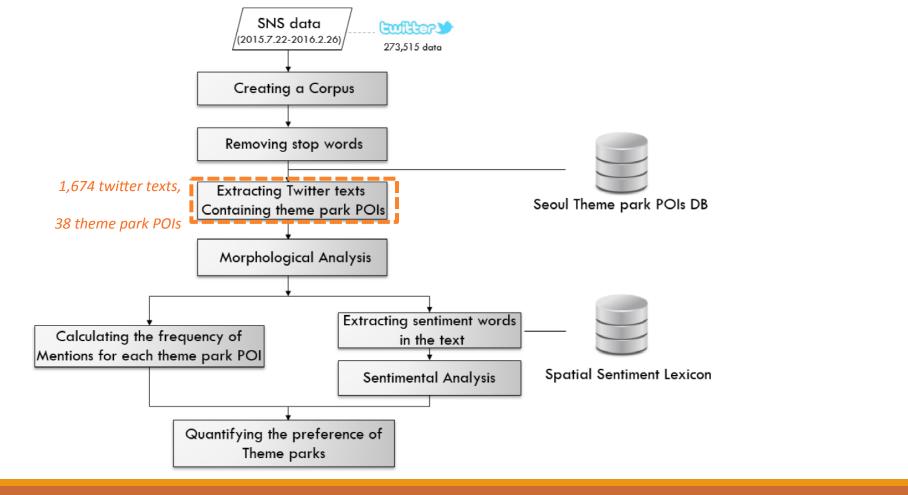
Purpose of study

Quantifying the preference for tourist destinations by considering positive and negative opinions about the destination mentioned in the SNS

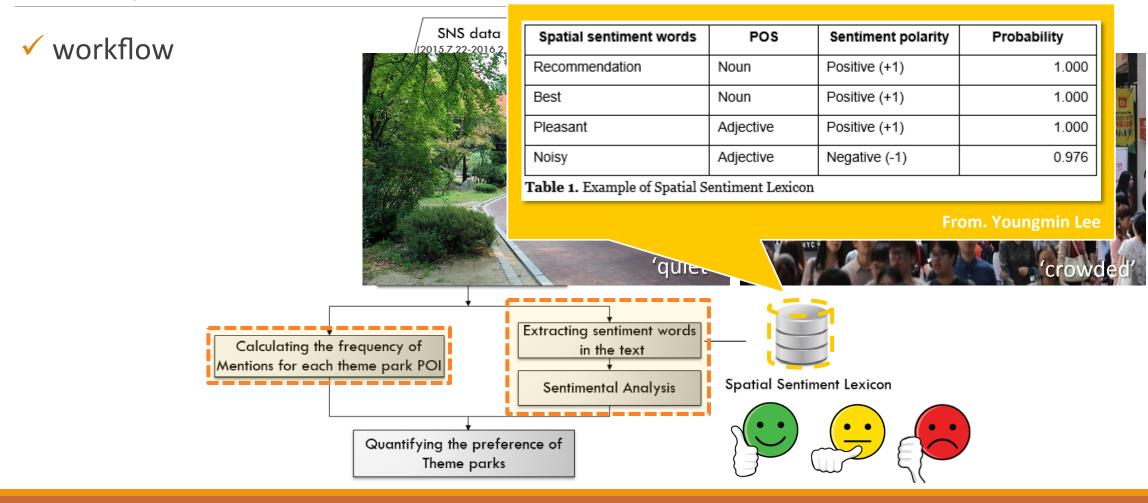


SNS data Confident ✓ workflow (2015.7.22-2016.2.26) 273,515 data Creating a Corpus Removing stop words **Extracting Twitter texts** Seoul Theme park POIs DB Containing theme park POIs Morphological Analysis Extracting sentiment words Calculating the frequency of in the text Mentions for each theme park POI Spatial Sentiment Lexicon Sentimental Analysis Quantifying the preference of Theme parks

✓ workflow



SNS data **Ewilter** ✓ workflow (2015.7.22-2016.2.26) 273,515 data Creating a Corpus Removing stop words Extracting Twitter texts Seoul Theme park POIs DB Containing theme park POIs Morphological Analysis Extracting sentiment words Calculating the frequency of in the text Mentions for each theme park POI Spatial Sentiment Lexicon Sentimental Analysis Quantifying the preference of Theme parks



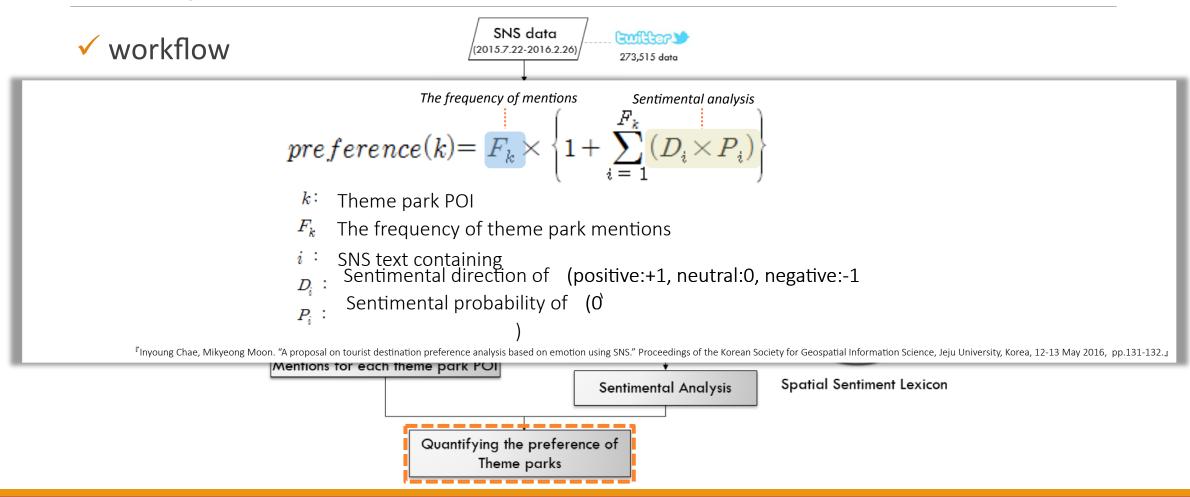
Twitter text	Spatial feature	Sentiment word
I have a test tomorrow, but Lotteworld Christmas atmosphere is very good!	Atmosphere	good

Table 3. Example of Twitter text of the second type

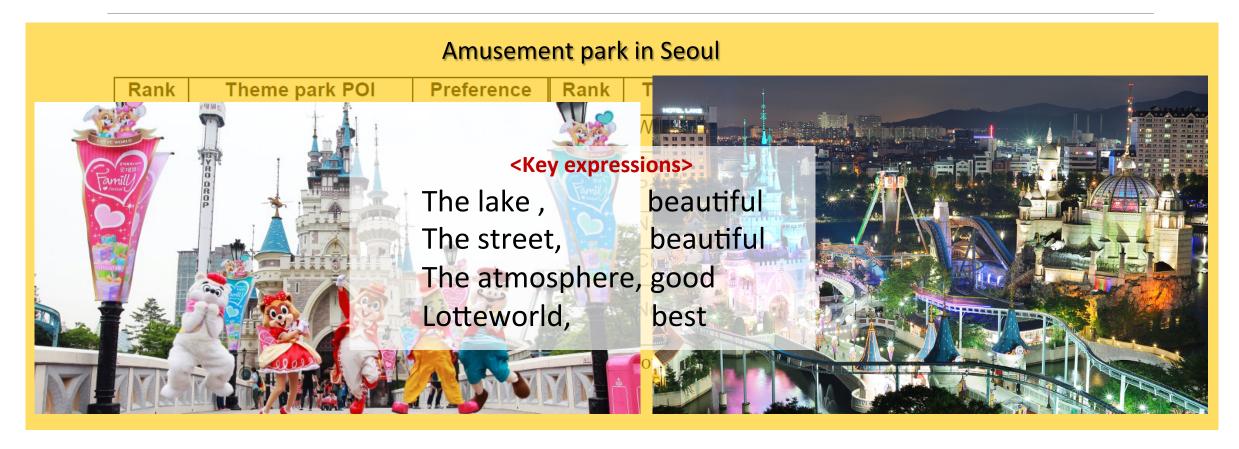
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pe	Subject	Negatives	Predicate	Example		
	Theme park POIs	not	Sentiment word about places (adjective, verb, noun)	Lotteworld, (not), good		
2	Spatial feature	not	Sentiment word about places (adjective, verb, noun)	Street, (not), pretty		
3	Spatial feature	not	'many' or 'little'	flower, (not), many		

Table 2. Types of sentences for sentimental analysis



Results



Results



Conclusion

✓ These results may provide useful information for tourists who want to visit the park on the first trip to Seoul ✓ we may help tourists to plan a travel route by analyzing the preference for various types of tourist destinations

References

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- ✓ An, J., Kim, H. W. (2015) Building a Korean Sentiment Lexicon Using Collective Intelligence. Journal of Intell igence and Information Systems, 21(2): 49-67

Thank you

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