

A Study on Similar Geo-region Mining based on Spatio-temporal Clustering of Social Media Photos

Lu CHEN[†], Yasutomo KAWANISHI[†], Ichiro IDE[†], Takatsugu HIRAYAMA^{††}, Keisuke DOMAN^{†††}, Daisuke DEGUCHI^{††††}, and Hiroshi MURASE[†]

[†] Graduate School of Informatics, Nagoya University

^{††} Institute of Innovation for Future Society, Nagoya University
Furo-cho, Chikusa-ku, Nagoya-shi, Aichi, 464-8601 Japan

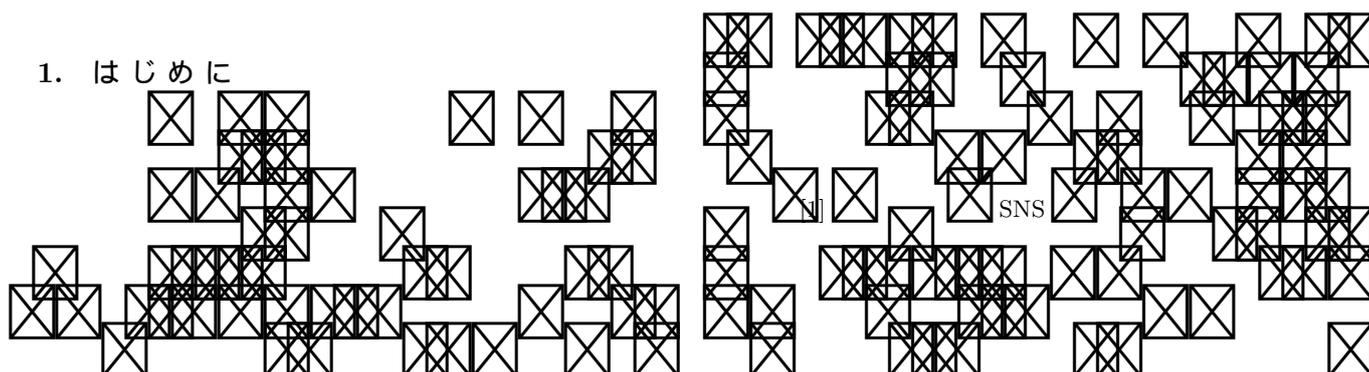
^{†††} School of Engineering, Chukyo University, 101 Tokodachi, Kaizu-cho, Toyota-shi, Aichi, 470-0393, Japan

^{††††} Information Strategy Office, Nagoya University

Furo-cho, Chikusa-ku, Nagoya-shi, Aichi, 464-8601 Japan

Abstract When travelling to a place that we had never been, it is important to grasp the atmosphere there beforehand to smoothly plan the travel. If a place's atmosphere is similar to somewhere we have already known at a certain season, we can intuitively grasp the atmosphere of that place when we travel. To realize this, we propose a method that divides SNS photos into spatio-temporal region using clustering and detects pairs of similar spatio-temporal regions based on the contents of social media photos.

Key words Travel, social media photos, spatio-temporal clustering



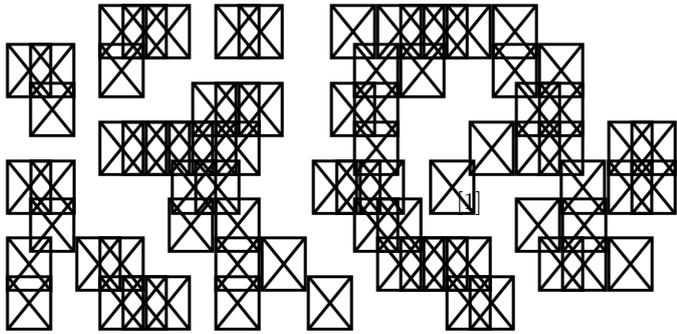
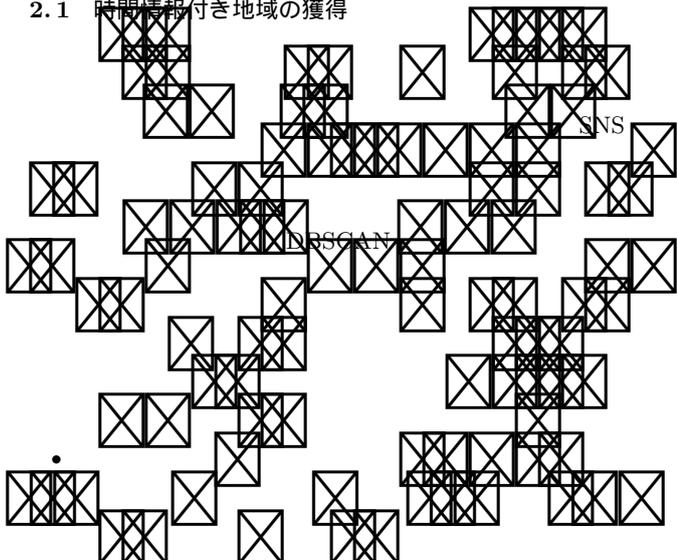


表 1:

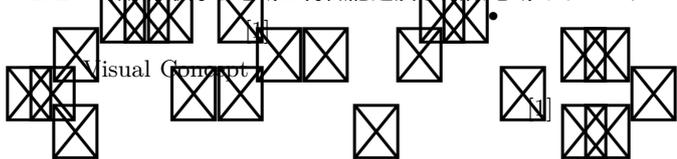
	5		6	0.9958
	9		10	0.9924
	7		8	0.9737

2. 時空間クラスタリングに基づく類似地域マイニング

2.1 時間情報付き地域の獲得

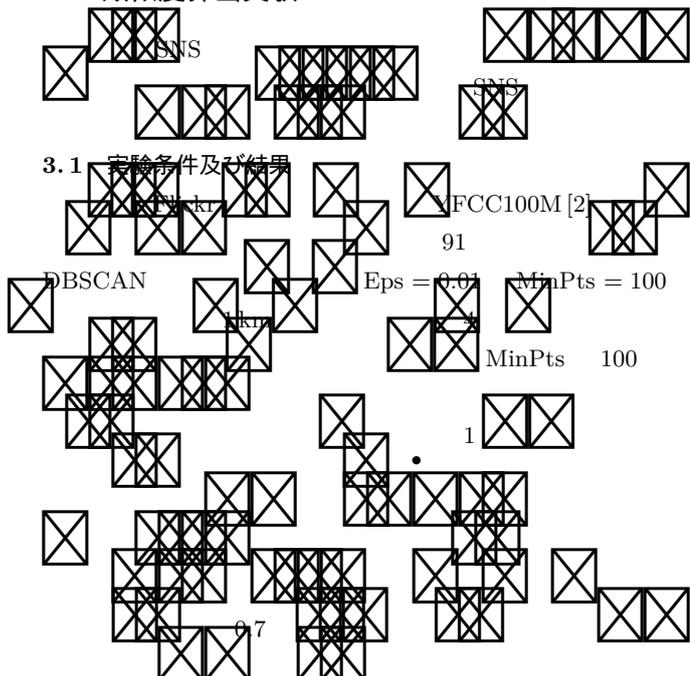


2.2 時間情報付き地域の特徴記述及び類似地域マイニング



3. 類似度算出実験

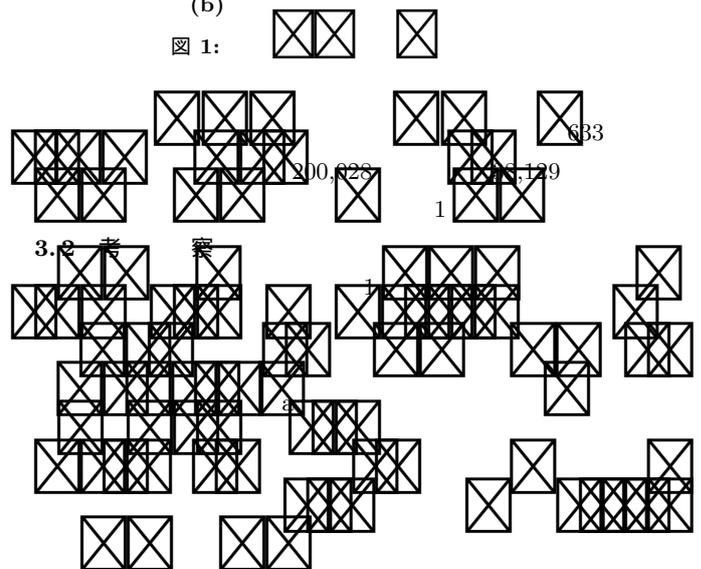
3.1 実験条件及び結果



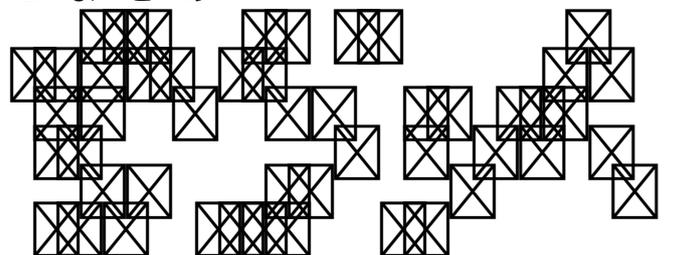
(a)

(b)

図 1:



4. まとめ



[1] 文 献
SNS
MVE2017-100 Mar 2018

[2] B. Thomee, D.A. Shamma, G. Friedland, B. Elizalde, K. Ni, D. Poland, D. Borth and L. J. Li, YFCC100M: The new data in multimedia research, Comm. ACM, Vol.59, No.2, pp.64-73, Feb. 2016.