Can TV-CM be quantified?:

considering qualitative data as a set of quantitative

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Seal or Signature

1. Goal and Background

[Goal]

TV-CM is quantified by a system.

- Image of a quantified TV-CM -



[Background]

- Viewers must gain any information from TV-CM more or less. However now that has not been quantified generally.
- If information of any TV-CMs can be quantified, then everyone can summarize any TV-CMs objectively.
- Assuming that a TV-CM consists by some meta-information which are independent and quantifiable.
 Example: target age, target gender, and interests.
- My focus is:

Assuming that TV-CM is a collection of meta-information, then TV-CM can be quantified by quantifying its constituent meta-information.

2. Approach

 Using of the system which can quantify meta-information of TV-CM, trying the quantification.

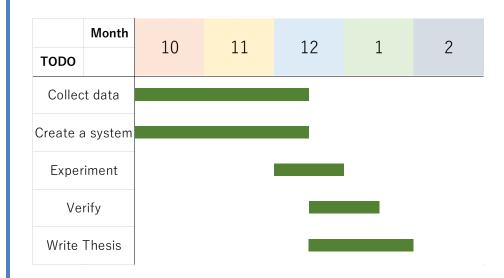
- The system is implemented as a model of machine learning.
- The models has the ability which classify video using meta-information.
 - Image of a quantified TV-CM -

Feature value (meta-information)	x_1	x_2	•••	x_n
Expected value in each output probability distribution	E(<i>x</i> ₁)	E(x ₂)	• • •	$E(x_n)$
The result of considering the expected value	y_1	y_2	•••	y_n

3. Preliminary Study

- Nowadays, video classification technology seems to be still in development stage.
- CNN(convolutional neural network) seems to be the most major of some methods which classify video[1].

4. Gantt Chart



References

[1]https://www.jstage.jst.go.jp/article/vision/31/1/31_1/_pdf/-char/ja