Cellular Trending: Fragmented Information Dissemination on Social Media Through Generative Lens

科技藝術書報討論

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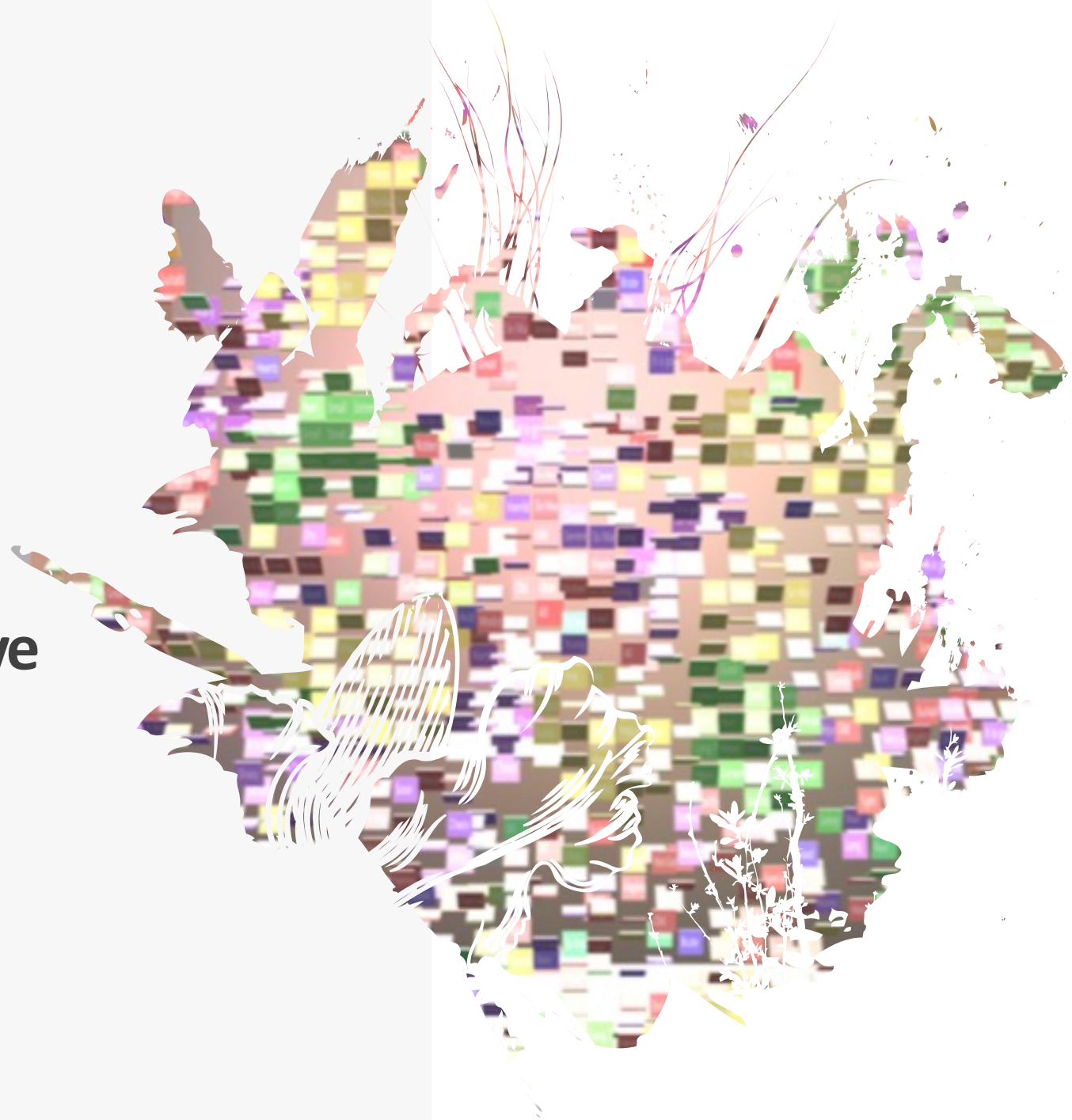

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KEYWORDS

Interactive installation, social media, cellular automata, affective computing, fragmented information

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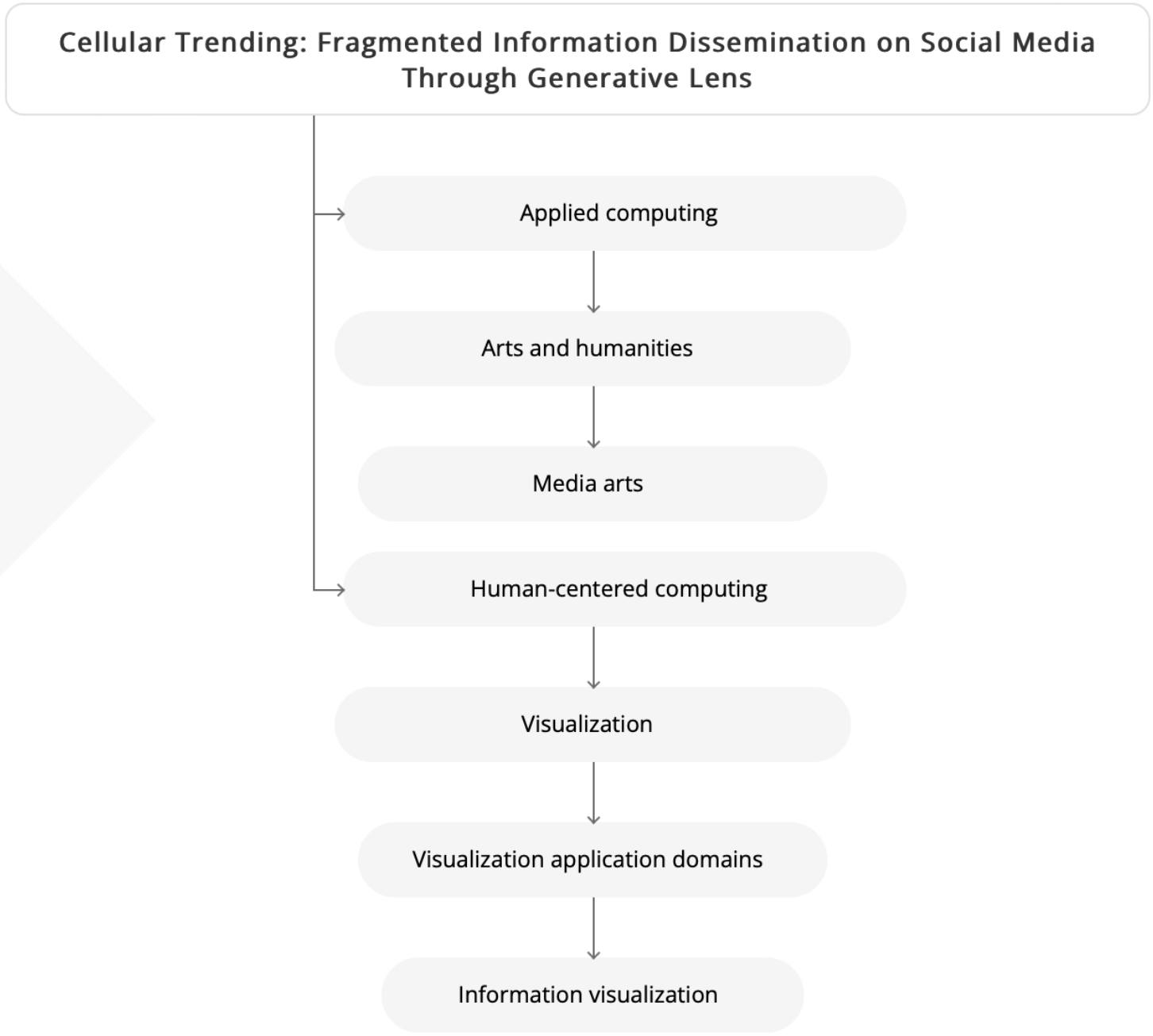
Cellular Trending is an artwork that reveals information fragmentation on the social media through generative lens.

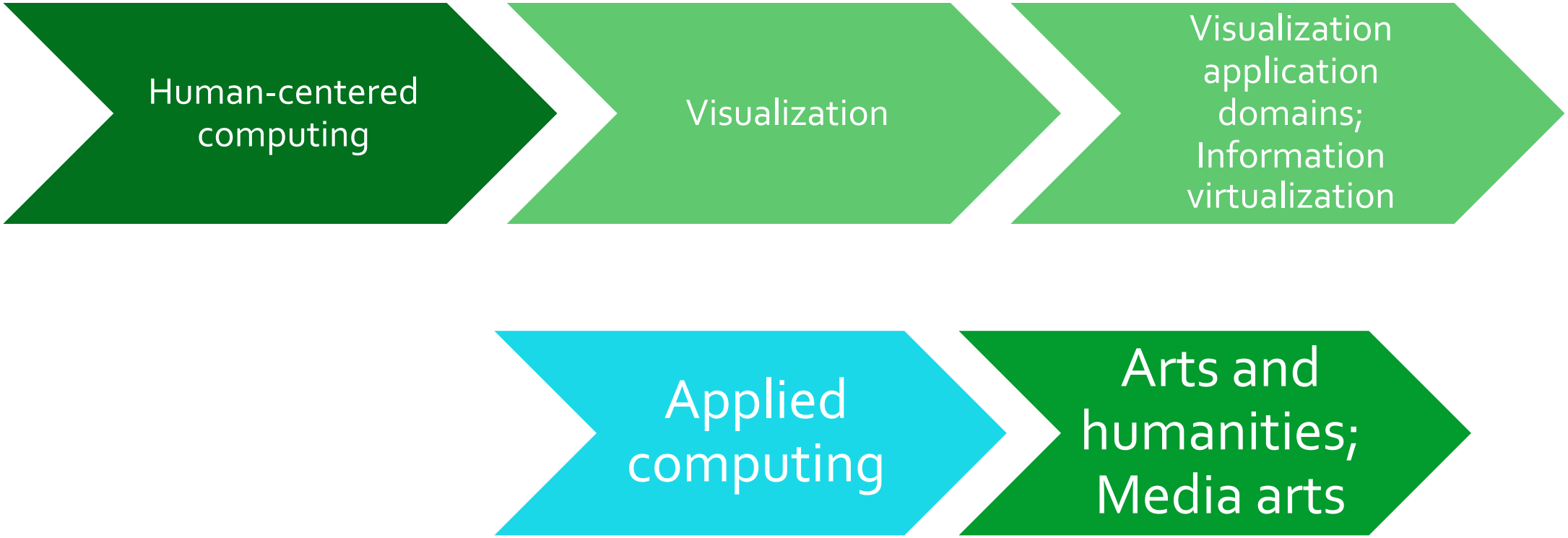
- It visualizes the fragmented information from social media with affective attributes cells to create artistic experience in visualize database.
- A multi-level interactive system consists of **CELL, FACT and VIEW** is proposed based on information dissemination theory mapping to fragmented communication, thinking and reading.

Abstract

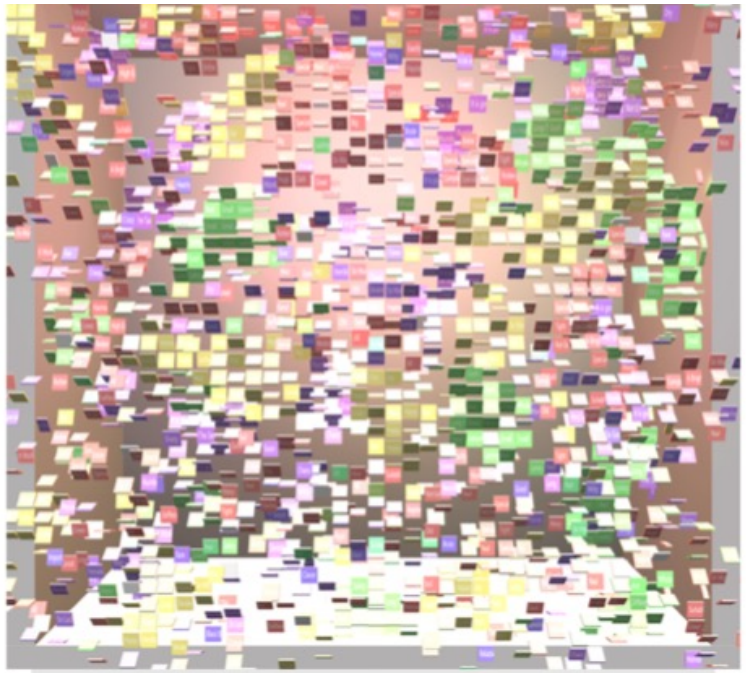


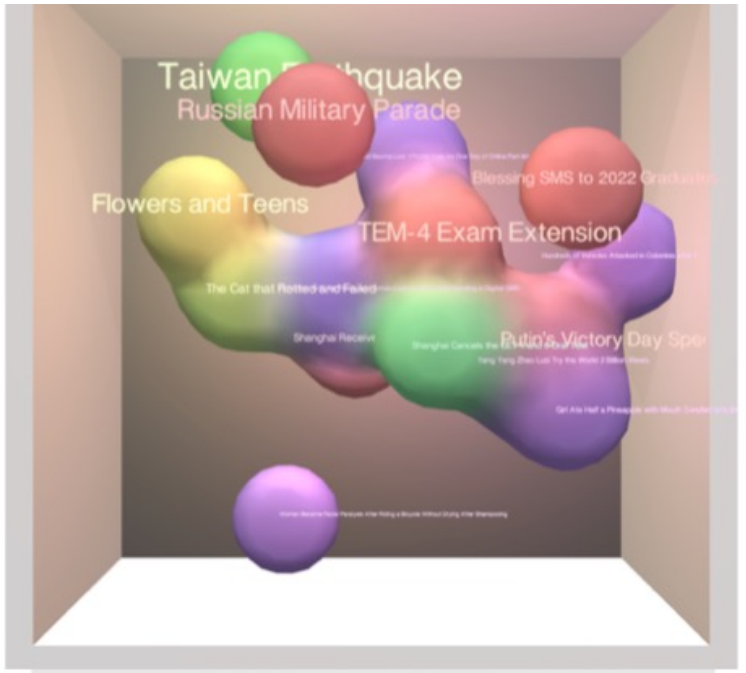
Cellular Tending

Process flow to manage social media data with the visualization procedure to enable its vision about the social interest topics



CCS CONCEPTS

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Flowers and Teens
TEM-4 Exam Extension
The Cat that Rotted and Failed


TEM-4 Exam Extension
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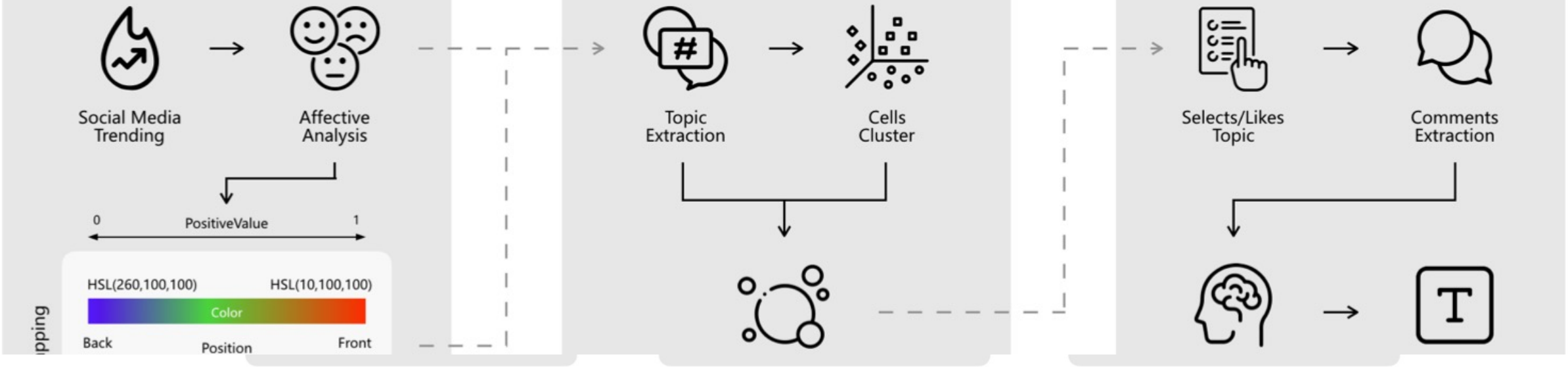
The Cat that Rotted and Failed
Victory Day Speech


Social Media Trending
Affective Analysis
0
PositiveValue
1
HSL(260,100,100)
HSL(10,100,100)
Color
Back
Position
Front
Topic Extraction
Cells Cluster
Selects/Likes Topic
Comments Extraction

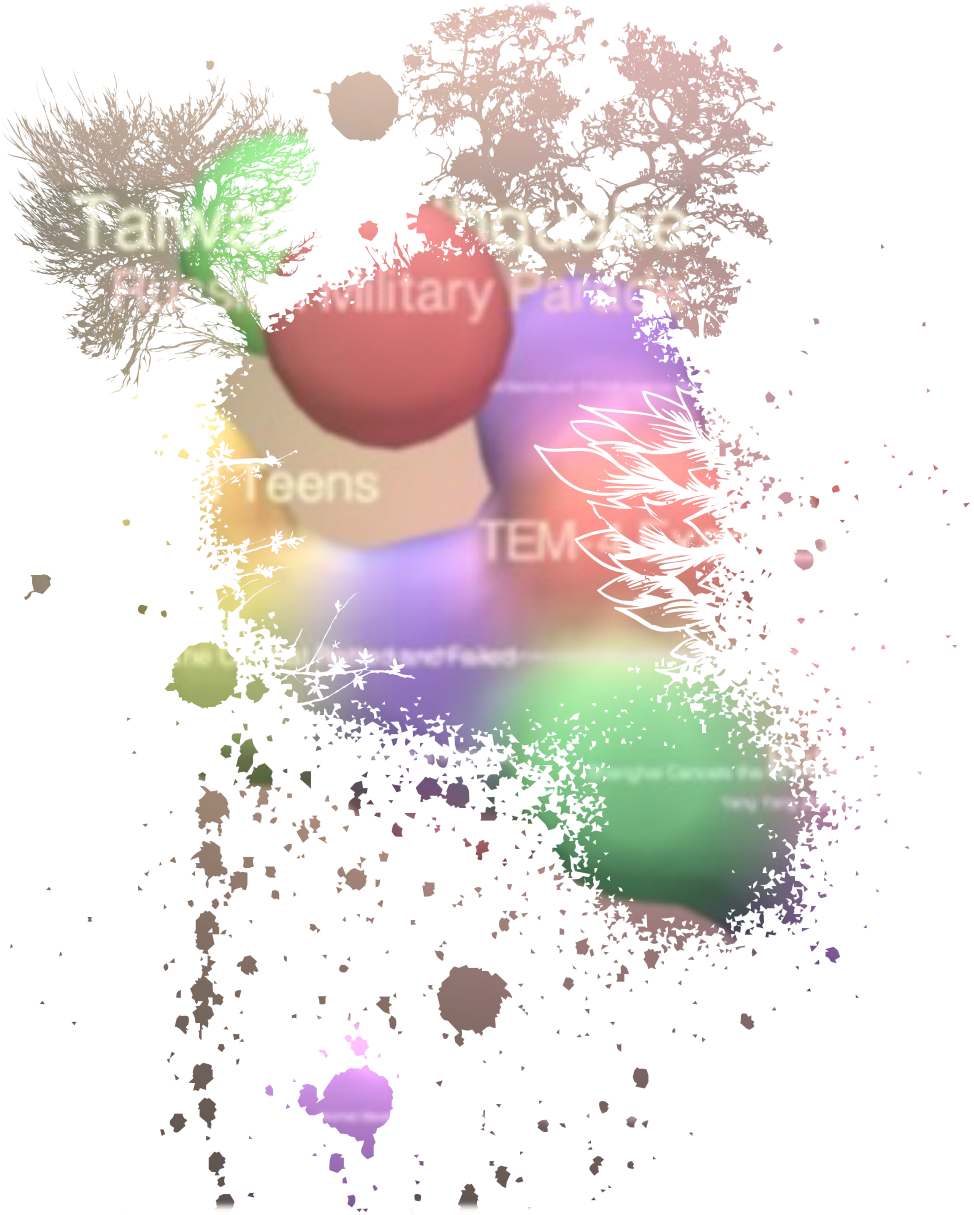
Introduction

Modern information dissemination is form as fusion media

Arouse people's resonance

The contributions are:

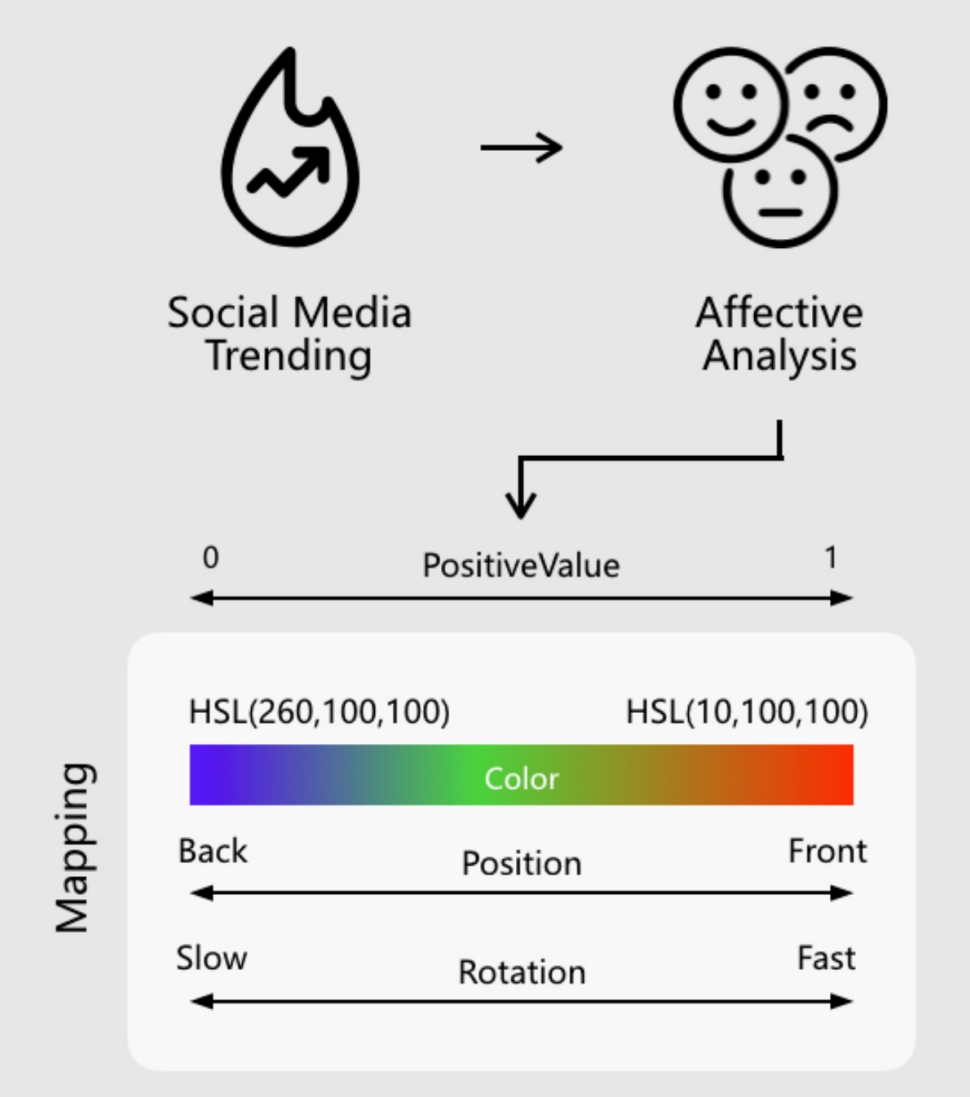
- **The mechanism of fragmented information dissemination** and its impact are visualized using cellular automata with affective attributes integrated from social media data to create artistic forms of presentation style.
- The theory of information dissemination and mental storage capacity model are arranged in the interaction process of **CELL, FACT, and VIEW.**



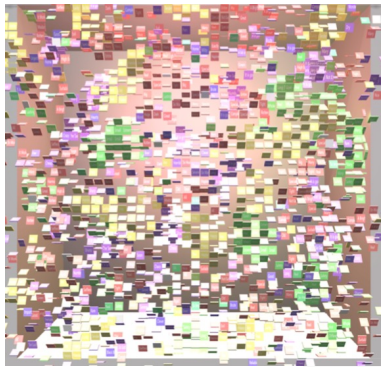
CELLULAR TRENDING SYSTEM

- CELL: Fragmented Communication
- FACT: Fragmented Thinking
- VIEW: Fragmented Reading

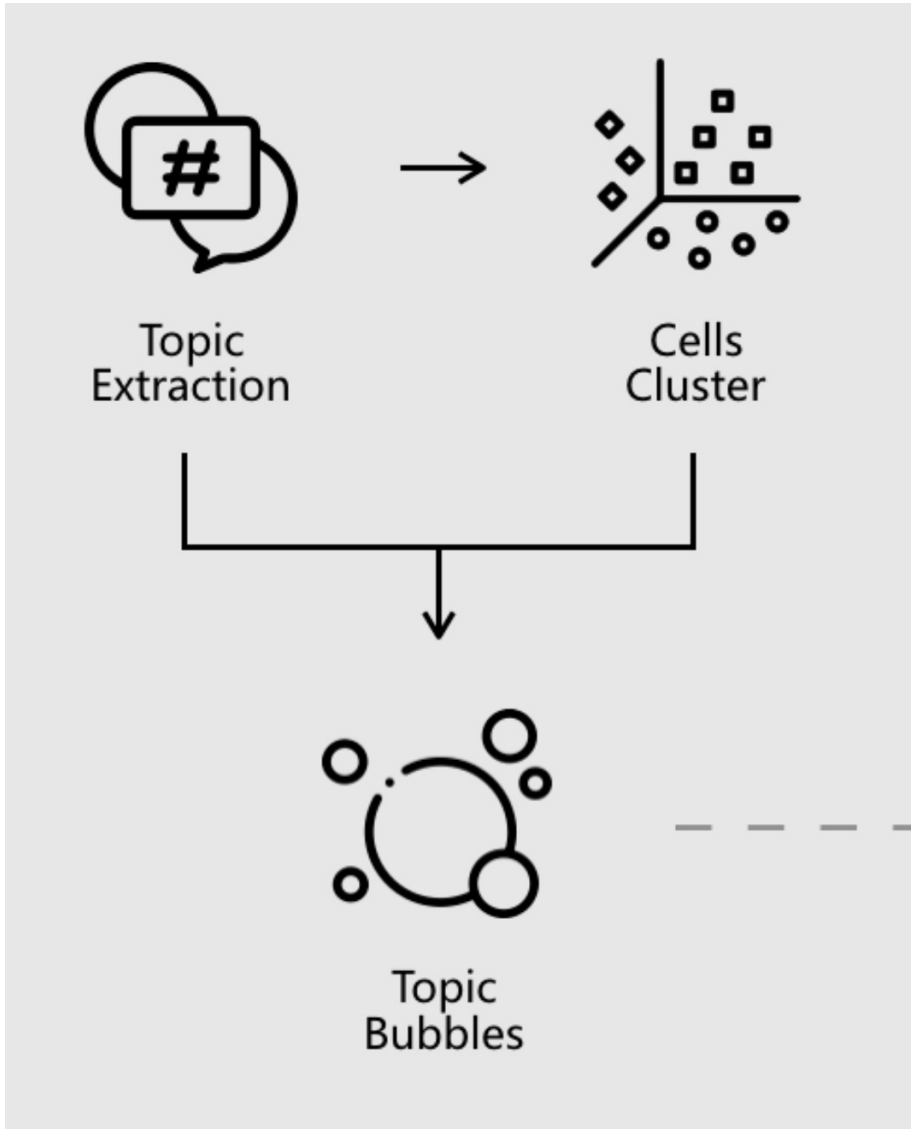
CELL: Fragmented Communication



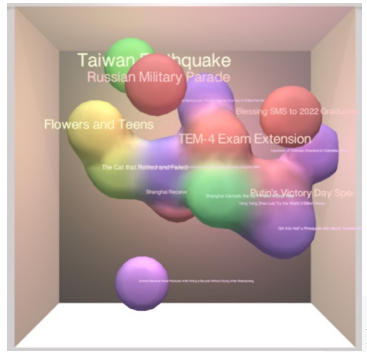
- Cells in the automata represent individuals browsing social media.
- The color, floating position and rotating movements mapped from sentimental tendency indicate active state of each cell.
- This layer of iterating cellular automata maps to the macro phenomenon of fragmented communication of individuals in social media.



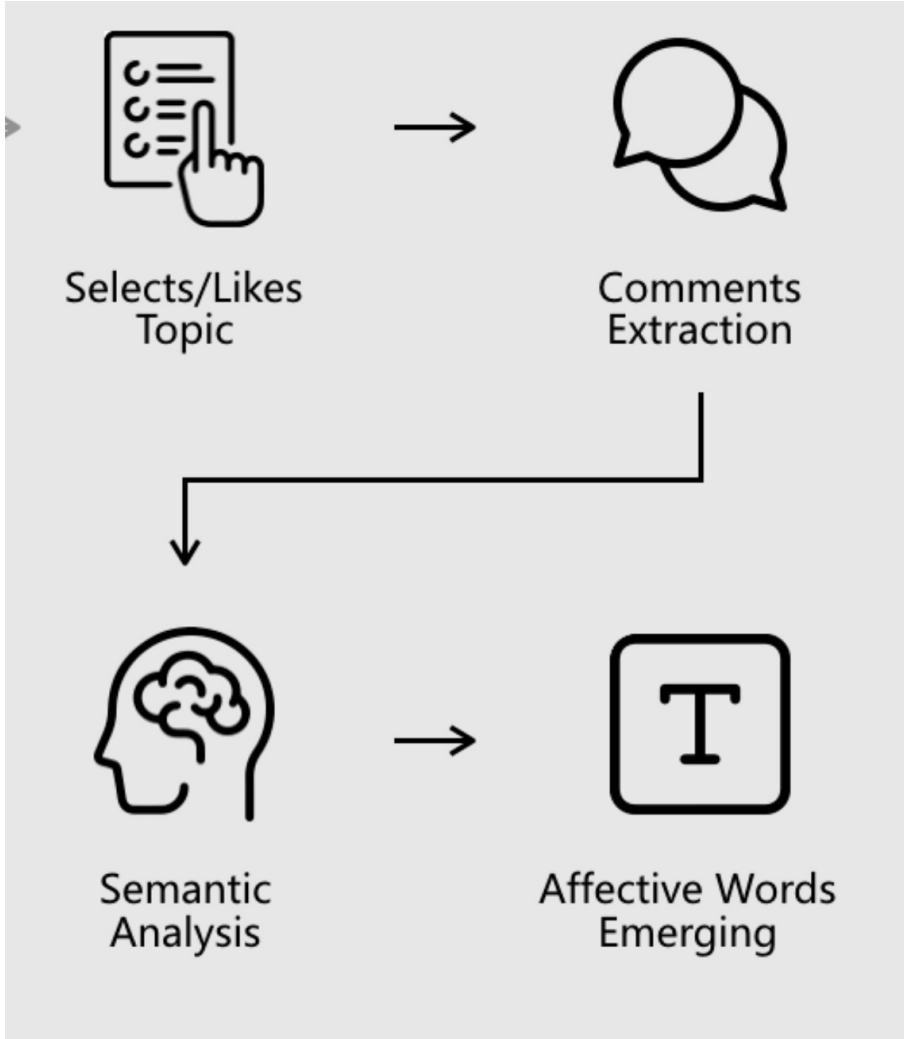
FACT: Fragmented Thinking



- Discrete cells from the automata cluster into topic bubbles, the positions of each topic bubble are calculated from the overall distribution of cells possessing each topic and are constantly wandering in the space.
- The feature of bubbles expresses the mechanism of forgetting and repression in the mental capacity model, the art symbols of topics.
- This layer of bubbles fuses and clusters into each other and maps to the memory system.



VIEW: Fragmented Reading



- Affective keywords and emojis are extracted from the comments of trending posts using lexical and semantic analysis.
- As the user dives deeper into the content of the trending topics and interacts with them, affective words present with the topic bubbles.
- The semantic information exhibits the fusion and disappearance of different details in reading fragmentation.

CONCLUSION

- Cellular Trending takes in social media data and affective analysis into generative art to visualize the fragmented information dissemination.
- The art presentation with social media big data with bubbles definition and the topics and information in vision.
- Interest-based extensive data analysis and present in some visual style enable its cognition art style.

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Connection

These article styles represent the social media dynamic status with the topics in the main. Combined with topics and shown with bubbles, some keywords have been selected as the data to be shown in the place.

The social with the big data combined these data as the art style. The components redefine the scope of the article things in real. I think the process and the art style drive this social information to become some interesting topics.

Comments

Big Data is the data in which social media and applications drive things in real. Social media like Line, Tiktok, and Facebook based on attractive social communications to enable social media business models.

All-in-one applications with social media contain the innovation about the strategy forward brainstorming. However, it's the art style. In other words, its social media UI in some specific presentation.