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■ Researcher information

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Major

Information Science, Natural Language Processing, Artificial Intelligence

■ Research topics

Language and Intelligent Information Processing for Ubiquitous Society

Keywords

Ubiquitous, Verbalization, Time-series data, Web intelligence, Information retrieval & recommendation

Contents

■ Overview (background, goal, detail)

I have been mainly working on two research topics : language information processing and intelligent information processing.

In the former topic, I have been developing a method to verbalize time-series data observed in our everyday lives.

In the latter topics, I have been developing a recipe recommendation system for managing health in our everyday lives.

■ Process, case study

- 1) A study on verbalizing the trends of a stock price
- 2) A study on verbalizing human behaviors using image processing techniques.
- 3) Recipe recommendation system for health management

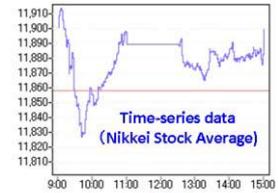
■ Potential (applications, future goals)

Verbalization of time-series data based on data mining techniques, etc.

INFORMATION SCIENCES

Ubiquitous

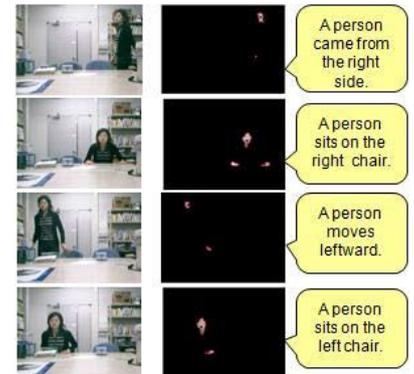
1) Verbalization of time-series data



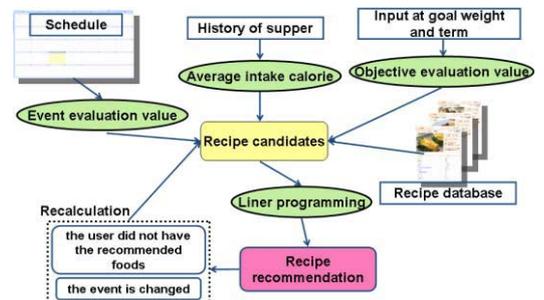
Text generation

EX.) The closing price of Nikkei Stock Average at Tokyo Stock Market on 22 August, 2005 added 160.78 yen, or 1.38 percent, to reach 12452.51 yen and it has recovered at the level of 12400 yen. It rose to high level. The market price rose.

2) Verbalization of human behaviors



3) Recipe recommendation for health management



Potential of social/industrial contribution

■ Joint research

Collaboration of developing a method to verbalize various time-series data.

■ knowledge sharing (open courses, workshops, publications)

Organizing a workshop for junior or high school students to give an opportunity to learn the basis of artificial intelligence and natural language processing.