

STATISTICS EDUCATION BY USING JAPANESE POPULAR SONG AND WAKA DATAAkinobu Takeuchi¹ and Hiroshi Yadohisa²¹Jissen Women's University, Japan²Doshisha University, Japan

takeuchi-akinobu@jissen.ac.jp

Present time has been called the information age and the knowledge society. In this circumstance, the researchers and educators of statistical science are required to take into account practical use of statistics in the society and try to improve the curriculums and the materials for statistical education. In addition, the knowledge of statistics and data analysis are expected by private enterprises and national and local governments in Japan (Takeuchi *et al.*, 2006). To obtain such knowledge, teaching following the PPDAC (Problem-Plan-Data-Analysis-Conclusion) cycle is very helpful.

On the other hand, the motivation of statistics is low and data analysis is not easy to understand for student. And the teaching using artificial and/or uninteresting data, does not attract the student.

In this presentation, we introduce teaching by applying text mining techniques to the Japanese popular song and Waka (31-syllable Japanese poem) data. Students analyze these data by using Japanese language morphological analysis and write a report according to the PPDAC cycle. We measure the educational effect of this teaching and discuss statistics education in Japan.

REFERENCES

Takeuchi, A., Suenaga, K., Hashimoto, N., and Masakatsu, M. (2006) Needs and Availability of statistical knowledge in Japanese private enterprise and government agencies, *Proceedings of 7th International Conference on Teaching Statistics* (CD-ROM).