

## The 9th International Seminar on Experiments and Surveys in Economics and Related Social Sciences

Having Professor Benjamin Bergen (Department of Linguistics, University of Hawai'i at Manoa) as a JSPS short term fellow, the 9th International Seminar on Experiments and Surveys in Economics and Related Social Sciences will be held in Tokyo Institute of Technology, O-okayama campus.

Date: Saturday, April 26th, 15:00~17:20

Venue: West 9 building 2nd Floor Room 202 (Seminar Room of Dept of Human System Science)

### 1) First Talk (15:00~15:40)

Title: Modeling Word Association Data by Random Graphs

Speaker: Hiroyuki Akama, with Jaeyoung Jung, Miyake Maki and Terry Joyce

Abstract:

The simulation of graph data still remains a challenging problem. Here we aim at making an artificial word association data by combining some random graphs following different degree distributions. This primitive modeling allows us to simulate a “quasi” scale-free feature and imbalanced clustering results which are common to many kinds of associative concepts dictionaries.

### 2) Second Talk (15:50~17:20)

Title: Embodiment and Language

Speaker: Benjamin Bergen (University of Hawai'i at Manoa, Dept of Linguistics)

Abstract:

Like other higher cognitive functions, such as reason and memory, language depends intimately on other, lower level cognitive systems, such as those dedicated to motor control and perception. In this talk, I will discuss some of the ways in which behavior and brain imaging evidence show that language users understand language using these lower levels, modal systems. I will discuss literal language as well as metaphorical language, including language about abstract concepts like value and quantity.

This seminar will be given in English. For any information, please feel free to have a contact with Akama ([akama@dp.hum.titech.ac.jp](mailto:akama@dp.hum.titech.ac.jp))

Moderator: Noboru Hidano