



Dynamism of Social Context Deciphered by a Linguistic Analysis of Ancient Literature

The first workshop of SPIRITS project

"Chronological and Geographical Features of Ancient Indian Literature Explored by Data-Driven Science"

2020-2021 Interdisciplinary type project, in the priority area of humanities and social sciences

SPIRITS: Supporting Program for Interaction-based Initiative Team Studies

Friday, February 12, 2021 | 14:00 ~ 19:10

The workshop will be held online and in English.

Understanding the social background of text formation is a basic requirement to accurately understand documents. However, the background of ancient societies is often hidden in a veil of mystery, which makes it difficult to understand the process of text formation. The Vedas, religious texts in Ancient India, are among these documents. In this workshop, we will seek to decipher the social movements, geographical mobility, and change in the spheres of influence in ancient India through a language analysis of the Vedic texts. The discussion will address the question how quantitative methods and data science can be applied to this field.

Part 1

14:00 ~ 14:30

● Opening :

● Problems in the Formation of the Vedas,
Ancient Indian Religious Texts

Kyoko Amano (Kyoto University, Institute for Research in Humanities / Hakubi Center)

14:30 ~ 15:10

● The Possibility of Information Visualization and Data Analysis
for Ancient Indian Literature

Hiroaki Natsukawa (Kyoto University, Academic Center for Computing and Media Studies)

15:10 ~ 15:50

● Relationship among Vedic Schools Deciphered by
the Visualization of Mantra Collocation

Kyoko Amano (Kyoto University, Institute for Research in Humanities / Hakubi Center)

15:50 ~ 16:30

● Citation Prediction Using Academic Paper Data
and Application for Surveys

Shun Hamachi (Kyoto University, Graduate School of Engineering)

Part 2

16:50 ~ 17:30

● Measuring the Semantic Similarity between the Chapters of Taittirīya Saṃhitā
Using a Vector Space Model

Yuki Kyogoku (Leipzig University, Indology)

17:30 ~ 18:10

● Dating Vedic Texts with Computational Models:
Algorithmic Considerations and Data Selection

Oliver Hellwig (University of Zurich, Department of Comparative Language Science)

18:10 ~ 18:50

● morogram: Background, History, and Purpose of a Tool for
East Asian Text Analysis

Shigeki Moro (Hanazono University, Faculty of Letter)

18:50 ~ 19:10

● Discussion (Moderator: Hiroaki Natsukawa)

Registration

Please register using the Google Form on the official website of the project. The Zoom Meeting ID and password will be sent to you by e-mail.

URL: <https://ancientindia-datascience.hakubi.kyoto-u.ac.jp>
Registration is available until the end of the workshop.
No registrant limit. No registration fee.