



Dvaita Philosophy Resource Centre (DPRC)
Department of European Studies (DES)

A four-day international workshop on
Sanskrit Computational Linguistics
linking Sanskrit grammar and texts with modern Science and Technology

part of the research project
Grammatical Analysis and XML tagging of Mahabharata

January 2-5, 2017

Highlights

Interactive discussions with subject experts with reference to Sanskrit literature

Exposure to Computer Science and Sanskrit Studies

Understanding of Natural Language Processing and Computational Linguistics

Applications of computational linguistic tools in advanced studies and research

Practical sessions of language parsing and other techniques



Manipal University

Manipal University (MU), referred to as the 'Nalanda of yore' by the former President of India, late Dr APJ Abdul Kalam, has emerged as the preferred destination of young students and scholars from across the globe to participate in the learning process. Over the years, it has emerged as an epitome of quality teaching and research both nationally and internationally.

Overview

This workshop intends for computer scientists, especially interested in the computer treatment of natural language, as well as traditional Sanskrit scholars, well-versed in Vyakarana, and eager to learn essentials of new technologies that may help them contribute in relevant ways to Sanskrit Studies and Computational Linguistics. This attempts to bridge the gap of computer literacy and poor awareness about the relevance of ancient Indian linguistic theories through the scientific inquiry into natural language understanding and processing.

As there is an increasing awareness in this particular emerging area, this workshop would benefit the people from across disciplines such as engineering, communication and traditional studies. This has nurtured an interest among computer scientists in the areas of languages, its structures and functions, which would help them to understand computers and make us develop advanced applications with the help of language parsing and other techniques.

The workshop is open to all faculty members, researchers and students of Sanskrit, Language Science and Computer Science disciplines.





Resource persons

Prof Gérard Huet, INRIA, Paris, France

Prof Amba Kulkarni, Fellow, IAS, Shimla, India

Prof Malhar Kulkarni, IIT-B, Mumbai, India

Prof Shrinivasa Varakhedi, Karnataka Samskrit University, Bengaluru, India

Dr Pawan Goyal, IIT Kharagpur, Kharagpur, India

Dr Tanuja A jotikar, Sanskrit Library Project, Mumbai, India

Workshop topics

Segmentation and morphological analysis of Sanskrit texts

Parsing of Sanskrit texts

Text encoding and XML tagging of Sanskrit texts

Online Sanskrit lexical resources

Shabdabodha systems (verbal cognition of texts)

Sanskrit WordNet and other resources

Statistical processing of Sanskrit texts

Dvaita Philosophy Resource Centre

Dvaita Philosophy Resource Centre (DPRC) was established as a part of the Department of European Studies (DES) with a funding from the Delegation of European Union to India in 2010. The Centre is focused on research, translations and publications in the areas of Indian philosophy and Sanskrit studies opening up the knowledge reserve for the global academia and strives to bridge the gap between the modern and traditional academic world. Since its inception, the Centre has brought out five scholarly publications, and organised summer schools, workshops and seminars hosting participants from different parts of the world. It also conducts two courses every year on Bhagavadgita, and Indian ethics and epics.

Grammatical Analysis and XML Tagging of Mahabharata

Presently, the Centre is working on the research project Grammatical analysis and XML tagging of Mahabharata including Madhva's commentary, with a team of traditional scholars. This is:

- to facilitate unambiguous interpretation of Mahabharata through computational tools
- to bridge the gap between traditional and modern academia with the help of technology
- to employ the best research practices and foster understanding of Mahabharata
- to increase academic output in India Studies with a focus on contemporary relevance

Eligibility: The workshop is open to all interested
Fee: 750 INR per person

To register, please write an e-mail with your details and letter of motivation to dprc@manipal.edu

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