



## Computational Sanskrit and Digital Humanities Section

### Special Call for Demonstrations

Dear colleagues,

As part of the Computational Sanskrit and Digital Humanities section at World Sanskrit Conference (WSC) - 2023, we are inviting for a short write-up (200-300 words) for the demo session on several facets of Computational Sanskrit and Digital Humanities related to Sanskrit (Classical and Vedic), Prakrit, Pali, Buddhist Hybrid Sanskrit etc.

Notable dates –

Submission Deadline: **25 October 2022**

Notification of Acceptance: **15 November 2022**

Demo session (*online only*): **09-13 January 2023**

We request you to submit a short write-up on your demo through the email to [csdh\\_wsc2023@manipal.edu](mailto:csdh_wsc2023@manipal.edu) with a subject line – “CSDH\_WSC – call for Special Demo”. You must upload the write-up in Portable Document Format (PDF) or Microsoft Word (Docx). The write-up must contain brief description of your system along with the link (if available). The submitted write-ups will be reviewed by the committee.

The areas of interest include, but not limited to:

Computational linguistics:

- Digital lexicons, thesauri and Wordnets
- Computational phonology and morphology
- Syntactic analysis
- Prose order normalisation
- Parsing
- Structural semantics
- Machine Translation
- Automatic analysis of Sanskrit corpus
- Machine Learning approaches to computational processing
- Navya-Nyāya technical language processing and semantic analysis
- Information extraction

Shāstric Sanskrit texts and computation:

- Computer modelling and simulation of Paninian and other traditional grammars
- Theories of śābdabodha and Sanskrit computational processing

- Sanskrit digital libraries management: Tools for acquisition and maintenance of Sanskrit digital corpus
- Library crawlers or search tools in Sanskrit corpus
- Incorporation of grammatical information in Sanskrit corpus
- Automated tools for evaluation of Sanskrit poetry, e.g., meter recognition/verification, alaṃkāra identification, alaṃkāra analysis
- Software tools for phylogenic studies, intertextuality management, the establishment of critical editions, and other philological applications
- Stylometry and authorship attribution
- OCR recognition of ancient Indian scripts
- Digital cataloguing of manuscripts
- Digital font creation, rendering of phonetic features, etc.

Misc. computer applications relevant to Sanskrit:

- Software tools for teaching Sanskrit
- Sanskrit speech recognition and synthesis
- Social media applications for Sanskrit dissemination

Please note that this call is only for the demo sessions.

More information about the Computational Sanskrit and Digital Humanities section is available [here](#). For all the general information about the WSC-2023 event, you can visit the WSC website [here](#).

### **Organisers (demo session)**

Dr Arjuna S R, Manipal Academy of Higher Education (MAHE), Bengaluru

Dr Pavankumar Satuluri, Chinmaya Vishwa Vidyapeeth, Ernakulam

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