TDIL Vision 2010

TDIL: Technology Development for Indian Languages

Vision statement
Digital unite and knowledge for all.

Mission statement
Communicating & moving up the knowledge chain overcoming language barrier.

Objectives
- To develop information processing tools to facilitate human machine interaction in Indian languages and to create and access multilingual knowledge resources/content.
- To promote the use of information processing tools for language studies and research.
- To consolidate technologies thus developed for Indian languages and integrate these to develop innovative user products and services.

Major Initiatives
- Knowledge Resources
  - Parallel Corpora, Multilingual Libraries/Dictionaries, Wordnets, Ontologies
- Knowledge Tools
  - Portals, Language Processing Tools, Translation Memory Tools
- Translation Support Systems
  - Machine Translation, Multilingual Information Access, Cross Lingual Information Retrieval
- Human Machine Interface System
  - Optical Character Recognition Systems, Voice Recognition Systems, Text-to-Speech System
- Localization
  - Adapting IT Tools and solutions in Indian Languages
- Language Technology Human Resource Development
  - Manpower Development in Natural Language Processing
- Standardization
  - ISCII, Unicode, XML, T M X, ISFOC etc.

TDIL Programme Goals

Short Term Goals
- Standardization of code, font, keyboard etc.
- Fonts and basic software utilities in public domain.
- Corpora creation and analysis
- Smart content creation.
- Language Technology be integrated into IT curricula.
- Collaborative development of Indian language lexical resources.
- Writing aids (Spell checks, grammar checks and text summarization utilities).
- Sharing of standardized lexware & development of lexware tools.
- Training programs on ILT awareness, lexware development, and computational linguistics.

Medium Term Goals
- Indian language speech database
- Multilingual, multimedia, content development with semantic indexing, classical and multi font and decorative fonts, offline/online OCR.
- Crosslingual information retrieval (CLIR) tools.
- Human speech encoding
- Speech Engine: Speech recognition, specific speech I/O.
- Indian language support on Internet appliances.
- Understanding and Acquisition of languages, knowledge representation, gisting and interfacing.
- Distinguished achievement awards for M.Tech/MCA/Ph.D. level in Indian Language Technologies.
- Machine aided translation: English to Indian languages, among Indian languages, Indian languages to English and other foreign languages.
- Online rapid translation, gisting and summarization.

Long Term Goals
- Speech-to-speech translation.
- Human inspiring Systems.