Techniques on Basic Tool Creation and Its Applications (TBTCIA 2013)

Duration: One Full Day

Goals of the Workshop

In any of the advance work of the Natural Language Processing (NLP), the basic foundation lies with the basic tool creation and its accuracy. There are approximately 7,105 living language at present in the whole world. Of these, only a few has been evolved with the changing scenario of NLP research work. The encouragement of basic tool creation is a must for the languages that are in their primitive stage of NLP research work as well as for those in advance stage for improving their accuracy and developing real life applications.

Call For Papers

We invite original and unpublished research papers on all topics related to the tool creation and its applications. The following is a list of possible topics that may be covered in contributions to this workshop but not limited to:

- Part of Speech (POS) Tagger
- Morphological Analyzer
- Stemmer
- Name Entity Recognizer (NER)
- Parser
- Word Segmentation
- Word Sense Disambiguation (WSD)
- Lexical Resources
- Annotated corpora
- Transliteration
- Multi-word Expression (MWE)
- Applications of NLP tools

Motivation for the workshop and appropriateness to TBTCIA

Natural Language Processing (NLP) is the fusion of Computer Science, Artificial Intelligence and Linguistics. NLP mainly concerns about the interaction between human and the machine through natural languages. The day is not far for us to give commands to a machine through our natural language instead of programming to the machine. In order to overcome the associated complexities, the basic tool creation becomes so crucial. The basic tools or the basic tasks and their applications in NLP research consist of POS Tagger, Morphological Analyzer, Stemmer, Parser, Word Segmentation, NER, Word Sense Disambiguation, Automatic Summarization, Question Answering, Information retrieval, Information Extraction, Sentiment Analysis, Machine Translation etc.

Out of 7105 living languages in the globe, the advancement of NLP can only be possible if we encourage the art of creating basic tools specially for the under developed or primitive languages. Even the languages which are advance in tool creation can go further for the accuracy improvement. Almost a perfection of the output by the tools can zero it down to real world human machine interaction through natural language.

ICON-2013 is the well-known research gathering for the industry and academic researchers internationally. Therefore, we do believe that this is the best place to hold the TBTCIA-2013 workshop and will increase the possibility of getting large number of participants both from industry and academics.

Selection process for participants and/or presenters and maximum number of participants (if limited)

Acceptance decisions related to the submitted papers will be based on double-blind reviews. Abstracts and draft papers submitted to TBTCIA 2013 Organizing Committee will be sent to, at least, three members of the conference Program Committee and/or to additional reviewers for its respective double-blind reviews.

Organizers

1. Prof. Sivaji Bandyopadhyay
   Professor, Jadavpur University, Kolkata, India
2. Kishorjit Nongmeikapam
   Asst. Professor, MIT, Manipur Univesity, Imphal, India
3. Dr. Dipankar Das
   Asst. Professor, NIT Meghalaya, India

Program Committee (Tentative)

Alexander Gelbukh	Mexican Academy of Science (Mexico)
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Sudip Naskar	CNGL Dublin (Ireland)
Thoudam Doren Singh	NUS (Singapore)
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Short Bios of the Organizers

Sivaji Bandyopadhyay, Professor in the Department of Computer Science and Engineering, Jadavpur University received the Ph.D. degree in Computer Science and Engineering from Jadavpur University, Kolkata, India in 1998, and the Master of Computer Science & Engineering degree from Jadavpur University, Kolkata, India in 1987, and the Bachelor of Computer Science and Engineering degree from Jadavpur University, Kolkata, India in 1985, respectively. He is engaged with several national and international projects such as "Development of Cross Lingual Information Access (CLIA)", DIT, Government of India, "Development of English to Indian Languages Machine Translation Systems (EILMT)", DIT, Government of India, "Development of Indian Languages to Indian Languages Machine Translation Systems (IL-ILMT)", DIT, Government of India, since August 2006, "An Advanced Platform for Question Answering Systems", Indo-French Center for the Promotion of Advanced Research (IFCPAR), 2009-2012, "Multidisciplinary Research Field on Sentiment Analysis where AI meets Psychology (SAAIP)", Strategic India-Japan Cooperative Programme-Project in the area of multidisciplinary ICT, DST, Government of India 2010-2013, "Answer Validation through Textual Entailment",

CONACYT, Mexico, DST, India, 2010-2012. His research interests are in the area of Natural Language Processing, Machine Learning, Machine Translation, Sentiment Analysis, Question Answering Systems and Information Extraction. He has had more than 100 publications in top conferences and journals and has served as program chair, workshop chair and PC member of COLING, IJCNLP, NAACL, NLPKE, ICON and others. Author is a member of the ACL, AAMT. For more information, visit http://www. sivajibandyopadhyay.com

Kishorjit Nongmeikapam is employed as an Assistant Professor in the Department of Computer Science and Engineering , Manipur Institute of Technology (MIT), Manipur Central University, Imphal, India since 2003. He is pursuing the Ph.D. degree at the Department of Computer Science and Engineering from Jadavpur University, Kolkata, India under the supervision of Prof. Sivaji Bandyopadhyay. He has received his Master in Computer Science and Engineering degree from Jadavpur University, Kolkata, India in July, 2010 and completed his BE degree in Computer Science and Engineering for PSG College of Technology, Coimbatore, Tamil Nadu in 2003. He is engaged in the "Manipuri Transliteration Project", funded by Govt. of Manipur. He is also engaged as Principal Investigator in the "Indo-wordnet project" funded by DEIT, Govt. of India. His research area are Natural Language Processing, Name Entity Recognition, Multi-word Expression and Soft Computing. He has so far published 25 papers in peer review top conferences, journals and books. He is the author of the text book "See the C programming Language" Romkunj Publication, First edition 2010. He has edited the Proceedings of "Natioanl Conference on Computer Science and Engineering (NCCSE 2011)", Imphal, India. He is in the editorial board of three International journals (IJETAE, IJNLP and IJSCAI) also a PC member of NCCSE 2011 and forthcoming International conferences SAI-2013 and ITCS-2014. He is the founding President of Natural Language Processing Association, Manipur (NLPAM) also the members of MALADES and ACL-SIG. For more information, visit http://www.kishorjit.com

Dipankar Das is an Assistant Professor in the Department of Computer Science and Engineering, National Institute of Technology (NIT), Meghalaya, Govt. of India. He received the Ph.D. degree in Computer Science and Engineering from Jadavpur University, Kolkata, India in 2013 and received his Master in Computer Science and Engineering degree from Jadavpur University, Kolkata, India in 2009 and B. Tech degree in Computer Science and Engineering from West Bengal University of Technology, Kolkata, India in 2005, respectively. Since 2009, he has been employing as a Research Engineer in the research project entitled "Cross Lingual Information Access (CLIA) Systems" funded by Department of Information Technology (DIT), India and since 2010, he has been employing in the India-Japan cooperative programme (DST-JST) 2009 research project entitled "Multidisciplinary Research Field on Sentiment Analysis where AI meets Psychology" funded by the Department of Science and Technology (DST), Government of India. His research interests are in the area of Natural Language Processing, Emotion and Sentiment Analysis, Affect Computing, Information Extraction and Language Generation. He has had more than 60 publications in top conferences, journals and books. He served as the PC member of several conferences and has experience in conducting several workshops in the area of NLP such as SAAIP 2010 in conjunction with COLING and SAAIP 2011 in conjunction with IJCNLP etc. He is a member of the IEEE, ACL and HUMAINE groups. For more information, visit http://www.dasdipankar.com