Guest Editorial Preface

Special Issue on Mining Modulation & NLP

Vijender Kumar Solanki, CMR institute of Technology (Autonomous), Hyderabad, India

Vijay Bhaskar Semwal, Indian Institute of Information Technology Dharwad, Karnataka, India

The technology is taking core place in business, problems are coming with change forms, and as the time shifts, the number of research domains is flourishing a wide. With the aim to contribute better work to researcher and academic fraternity, we have edited this special issue, and hope it will bring new insights to the readers with the time.

We have circulated the open call as well as through RICE-2016, received number of quality papers. However due to scope of special issue and review reports, we were able to add four papers in this issues. I am thankful to the author's for supporting a long wait and finally it's before you.

The first article titled "*Enhancement of 'Technique for Order Preference by Similarity to Ideal Solution' approach for evaluating the web sources to select as external source for Web warehousing*" is contributed by Hari Om Sharan Sinha. in which the authors have evaluated the web sources, which are to be selected as external data sources for web warehousing. In order to identify the web sources, they are evaluated on the ground of their multiple feature. The experimental result i.e. proximity value also shows the enhancement in selection of web sources for warehousing. The conventional TOPSIS being linear gives more importance to the feature which falls in same line and only includes the cosine values of other directions. If direction of the features is orthogonal then it does not include that feature but Enhanced TOPSIS does because of Jeffrey Divergence.

The Second article "*Comparative Analysis of EMD and VMD Algorithm in Speech Enhancement*" is contributed by Rashmi Rekha et al., as the signal enhancement is required in many areas like social, medicine engineering etc. Mostly speech enhancement can be applied in these fields along with security application. Speech data can be utilized in data mining approach for social and security aspects. To enhance the speech signal the authors proposed the decomposition method which seems to be one of the best techniques. In this article, two different algorithms such as Empirical Mode Decomposition (EMD) and Variational Mode Decomposition (VMD) are used. Different noise levels as 0dB, 5dB, 10dB and 15dB are considered for input signal. Finally, the comparison among two algorithms has been made. VMD technique outperforms the EMD method. It has been observed from the result section.

In the third article Urmila el al., submitted works on article "*News Headline Building using Hybrid Headline Generation Technique for Quick Gist*" in which authors state that a considerable amount of time is required to interpret whole news article to get the gist of it. Therefore, in order to reduce the reading and interpretation time, headlines are necessary. The available techniques for news headline construction mainly include extractive and abstractive headline generation techniques. In this paper, context based news headline is formed from long news article by using techniques of core Natural Language Processing (NLP) and key terms of news article. In this research work, news headline is framed with the help of keywords retrieved from input news article and some NLP techniques.

In the fourth article, Urmila et al. submitted work on article "*Conversion of Tactile Sign Language into English for Deaf/Dumb Interaction*" The objective of this work is to focus on the problem of interpretation of tactile language of deaf & dumb & give a solution by making an interpreter which will help to bridge the gap of communication between Deaf & dumb & normal people. If we follows the more efficient algorithms for language technology in this field system can do the miracle for deaf & dumb for longer sentences. Here our work is restricted to short sentences containing maximum 3 to 4 words only. Future scope is to extend the work with longer sentences. This will help the society which is isolating the Speech & Hearing impaired people & will bridge the gap between two.

We place our sincere thanks to reviewers from country as well as from abroad, who have given their valuable time to provide critical review for the assigned paper. We are sincerely thankful to EiC, Dr. Nilanjan Dey, for providing opportunity to us to edit their journal special issue. I am sure that this special issue will be beneficial to the industry, academician and researchers, who are working in the domain of Data mining, signal Processing and NLP.

I am also thankful to our Institution's Principal, CMRIT (Autonomous), Hyderabad & IIIT-Dharwad, who provided us ample open platform to serve as the guest editor duties honestly. I am sure this learning will be helpful for us in research and academia exploration. Though utmost care has been done by us in preparing this special issue, but still your critical feedback and suggestion will help us to get better inputs in future works.

Guest Editors
Dr. Vijender Kumar Solanki, Ph.D
Dr. Vijay Bhaskar Semwal, Ph.D