

Guest Editorial Preface

Special Issue on the Role of Smart Technologies and Diffusion

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The special issue on the Role of Smart Technologies and Diffusion is based upon the network diffusion on Internet, Grid Computing, Mobile Computing, Natural Language Processing and Machine Translation. The explosive growth of smart technologies and diffusion creates many scientific and engineering challenges that call for ingenious research efforts from both academia and industry, especially for the development of efficient, scalable, and reliable Smart Technology based on diffusion. New protocols, architectures and services are in dire needs to respond for these challenges.

The issue carries revised and substantially extended versions of selected papers presented at the International Conference on Smart Computing and Communication (SmartTech-2017). We have also accepted papers from the researchers who couldn't participate in the conference.

The lead article in this special issue is titled as "Information Retrieval System an Overview, Issues and Challenges", by Ram Kumar and S. C. Sharma. This paper includes the description of different Information Retrieval Systems (IRS) models along with analysis of their merits and demerits. This paper presents an overview of IRS.

The second paper is titled as "Multi Language Text to English Translation" by Urmila Shrawankar and Achint Kaur. The paper elaborates difficulties faced during text identification from an image. They have evaluated various algorithms in order to find the solutions. The aim of the paper is to increase robustness with respect to different challenges. The system solves the problem of reading multiple texts embedded in an image as well as provides a meaningful translation in English language.

The third article is titled as "Finger Spelling in Air System for Deaf and Dumb". In this paper, authors have presented a real-time video based system which recognizes the English alphabets and words written in air using finger movements only.

The last article is titled as "Cross-platform mobile development Framework based on MDA Approach". In this paper, authors have proposed a solution based on MDA approach called "TimPhoneGenerator". Using TimPhoneGenerator, applications only need to be coded once for all targeted platforms, which reduces development time and costs.

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