

Guest Editorial Preface

Special Issue on Applicational Role of Big Data in Engineering and Management

Anuj Kumar Gupta, Department of Computer Science and Engineering, College of Engineering, Chandigarh Group of Colleges, Mohali, India

Dharam Singh Jat, Department of Computer Science and Engineering, Namibia University of Science and Technology, Windhoek, Namibia

Sunil Kumar Chawla, Department of Computer Science and Engineering, College of Engineering, Chandigarh Group of Colleges, Mohali, India

We are pleased to present the Special Issue of the International Journal of Multimedia Data Engineering and Management entitled Applicational Role of Big Data in Engineering and Management. This special issue contains 3 articles. It opens with the article by Rohini Mahajan and Devanand Padha entitled “Multiresolution Wavelet Transform based Anisotropic Diffusion for removing Speckle Noise in a real-time Vision-based Database.” The authors have devised a novel algorithm to identify the noisy pixels in the video frames and in turn to correct them to enhance the video quality. The next paper is by Deep Kumar Bangotra, Yashwant Singh and Arvind Kumar Selwal entitled “An Intelligent Opportunistic Routing Protocol for Big Data in WSNs.” This article presents the basic concepts of WSN, review of different Opportunistic Routing protocols and the use of different Machine Learning techniques in routing the Big Data. The final article is by Ajay Kumar, Parveen Poon Terang, and Vikram Bali entitled “User-Based Load Visualization of Categorical Forecasted Smart Meter Data using LSTM Network Variants.” This paper is concerned with electrical load forecasting in power systems planning, operation and control. It explores a deep learning technique, Long Short-Term Memory (LSTM) and Recurrent Neural Network (RNN) based framework to tackle the non-linearity and non-stationary nature of the data in electrical load forecasting which is reflected in terms of accuracy. We would like to thank all the authors who kindly contributed their papers for this issue and the Editor-in-Chief(s) Chengcui Zhang and Shu-Ching Chen of International Journal of Multimedia Data Engineering and Management for their kind help and co-operation. We are also indebted to the IGI Global editorial office and the publishing and production teams at IGI Global Group for their assistance in preparation and publication of this issue.

Anuj Kumar Gupta
Dharam Singh Jat
Sunil Kumar Chawla
Guest Editors
IJMDEM