From the Executive Editor

Dr. Ruchika Malhotra[1]

As always I take immense pleasure in presenting to you this issue of SEIJ and hope that it shall inspire the researchers worldwide to utilize the knowledge and knowhow contained in this issue for newer applications and advancement of the frontiers of software engineering.

The first research paper proposes a software engineering research map to deal with cloud computing. The aim of the second paper is to propose use of few machine learning algorithms with an objective to predict software maintainability and evaluate them. The third paper proposes a novel approach for requirement prioritization by incorporating the imprecise nature of human judgment. The second last paper reviews software process management in software engineering undergraduate curriculum and the last paper reviews OPNET and compares it with other simulators.

The first research paper titled "Cloud Computing A Research Roadmap in Coalescence with Software Engineering" authored by Sitalakshmi Venkatraman and Bimlesh Wadhwa provides an systematic road map for cloud computing in software engineering. This paper also focuses on the lack of user-centric architecture, identifies the traditional system design, implementation and testing issues prevalent in software engineering with respect to cloud services.

The need for efficient and effective models in order to improve maintenance activities is increasing. The second paper titled "Software Maintainability Prediction using Machine Learning Algorithms", authored by Ruchika Malhotra and Anuradha Chug, compares performances of above models developed using machine learning algorithms with other well known algorithms applied in the literature for the purpose of prediction of software maintainability. This will reduce the challenges involved with prediction of maintainability and assist software developers to efficiently utilize their resources, enhance process efficiency and optimize the associated maintenance costs.

An optimization framework which supports the decision whether to buy software components is introduced in the third paper. This paper is titled "Requirements Uncertainty Prioritization Approach: A Novel Approach for Requirements Prioritization" and is authored by Persis Voola and A Vinaya Babu. In this paper, a requirement prioritization approach is developed and proposed. This approach is applied on an case study and the results found to be encouraging. The results show that the approach is simple, inexpensive, scalable and at the same time providing reliable and useful results.

"Assimilation of Software Process Management in Software Engineering Undergraduate Curriculum", authored by Abdul Kadir Khan discusses a case study of Haramaya University, Ethiopia is discussed for Software Engineering undergraduate curriculum. In the last paper titled "OPNET: An Integrated Design Paradigm for Simulations," authored by Sparsh Mittal, the authors conduct survey and review of prominent fields where OPNET has been applied and compare it with other existing simulators. The paper will be greatly helpful for beginners as well as experienced users.

I also welcome your comments and reviews on this issue and welcomes original research and new ideas in the areas of software engineering.

[1]Dr. Ruchika Malhotra
Department of Computer & Software Engineering
Delhi Technological University
Shahbad Daulatpur, Bawana Road, Delhi-110042, India
Email: ruchikamalhotra2004@yahoo.com