

# From the Editor

**Prof. P. B. Sharma**

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Software Engineering has emerged as an important discipline to create capabilities of computing, networking and applications which pervade to all activities of human endeavour. Whether small applications on modern mobiles for games and entertainment, software to drive large scale system integration on a chip, application software for an intelligent traffic system, image processing, empowering an autonomous vehicle with capabilities of self-navigation, simulation and modeling of complex phenomena and systems or a host of software for management of an enterprise, it requires the genius of man to integrate the advancement taking place in science and engineering. The all pervading nature of software applications has made software engineering one of the most versatile branch of engineering benefitting one and all in the society.

We are so dependent on software that we cannot imagine a day without using cell phone, watching television, sending emails and browsing web sites. Large sized databases are the backbone of social networking websites and various application software. Software engineering provides the framework, methods, techniques and design principles to produce good quality maintainable software. We find that rapid advances are taking place both in the areas of information science, communication engineering and computing, these are being gainfully utilized by software engineers and researchers in the universities and in the industry to develop new applications to enhance both the efficacy as well as usefulness of the software. The discipline of software engineering is witnessing rapid changes as the customer needs and system requirements are undergoing changes at a rapid pace.

Software Engineers have a challenge to cope up with the rapidly reducing lifecycle of the software as well as new product development. This requires a high degree of imaginative capabilities powered by intuition of the software researchers to conceive newer methods of solving the intricate problems with ease and speed. Empirical studies are effective as they provide for easy validation with real life data. The transparency of the field makes software engineering as a flagship discipline of computer science. Keeping in view the rapid advances taking place in the field of Software Engineering it was decided to launch an International Journal of Software Engineering to provide a platform for researchers, software developers and practitioners to share their latest knowledge and knowhow through their contributions in the journal in the form of original research papers and critical reviews.

SEIJ will be published bi-annually. The journal shall be highly beneficial for promoting research in software engineering and will give worldwide visibility of the original contributions made by the learned authors. **SEIJ is an online, open access, peer reviewed journal.** It will be our editorial policy to publish high quality and research papers that reflect original contributions to the knowledge and knowhow of software engineering. We hope that this Journal shall find a pride place among the leading international journals in this area of vital importance for the growth of tomorrow's science and engineering of tomorrow.

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We have established an international advisory editorial board that consists of distinguished scientists, academicians and researchers from all over the world. We are very grateful to them for giving their valuable time for forming guidelines and reviewing some of the papers for the journal. We are deeply honored to receive research papers from the members of editorial board in this inaugural issue – Prof. Jerry Gao, Prof. Jeffrey Koch, Prof. Yogesh Singh, Prof. Philippe Dugerdil, Prof. Kai-Yuan Cai, Dr. Marian Jureczko. We express our deep gratitude to them for providing their invaluable support for the first issue.

We may add that a good number of research papers were received and a thorough peer review was carried out to select a few best out of large pool of high quality research papers. It was a difficult exercise which involved international experts and reviewers and we are thankful to all of them for their expert support to the journal.

We invite researchers and software practitioners from around the world to submit their original research papers in the areas of software quality, software metrics, software architecture and design, empirical software engineering, software testing, software requirement engineering, reliability models and methods for developing, verifying and implementing the systems. The manuscripts should be sent to Dr. Ruchika Malhotra (Executive Editor) at [ruchikamalhotra2004@yahoo.com](mailto:ruchikamalhotra2004@yahoo.com) for consideration.

I take immense pleasure in presenting to you the inaugural 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.

I shall also welcome your comments and reviews on the inaugural issue.