

Editorial

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WE are pleased to present the seventh volume of the ULAB's Journal of Science and Engineering (JSE). It's been another successful year for us. Since 2010, ULAB's JSE has maintained its position as the most prestigious national publication in the field of science and engineering. We feel proud that the journal has crossed the national boundary and becomes international, as now we are getting papers from abroad.

In the first volume, we found many ordinary papers were being submitted, but the quality of submitted paper is gradually improving in the subsequent volumes. This year on the basis of peer-review we have accepted 6 papers.

The first paper of this volume presents a numerical study with two explicit finite difference schemes for solving the advection diffusion equation along with stability analysis. In addition, it did a simulation to show accuracy of the schemes.

The second paper focuses on the deterioration of environment of Bangladesh to provide an overall scenario of major environmental problems for improving its environmental quality.

The third paper shows two new proofs of the independence of sample mean and variance for two independently, identically and normally distributed random variables with a view to improve the confidence of students and instructors about the fundamental theorems of statistics.

The fourth paper presents a simulation for the equilibrium analysis of Boltzmann equation through a N-layer loosely coupled hexagonal model.

The fifth paper discusses the techniques of optimizing SQL performance in a parallel processing DBMS architecture with a view to empower SQL developers and business intelligence community to write efficient queries for maintaining a stable data warehousing environment.

Finally, the sixth paper focuses on the students' perception about the quality of the ICT facilities available in public and private universities of Bangladesh for a comparative study through utilizing scientific methodology.

According to the publication policy all papers submitted to this journal have been subject to a rigorous peer-review. We continuously strive to publish original research that contains elements with technical novelty in a timely manner. The journal's focus is on traditional areas of both theoretical and practical applications of physics, mathematics, statistics, environmental science, electronics, computer science, information and communication engineering. In addition, we shall gladly accept submissions on emerging technologies and other emerging areas related to the above fields.

You are most welcome to read this issue of the ULAB Journal of Science and Engineering. In order to continue publishing a high-quality journal, JSE's editorial board seeks excellent contributions containing original research or reviews. Our editorial board works tirelessly to provide contributors with a prompt and thorough review process.

We would like to extend our heartfelt thanks to every author, reviewer and reader for your support and dedication to JSE. We strongly believe that together, we shall elevate the journal to even higher levels of quality, impact, and reputation.

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