Special Issue

Statistical Process Control and Inference: Novelty, Controversies and New Direction

Message from the Guest Editors

In the last months, a number of articles complaining about the quality, unreliability, impracticability and weaknesses of some control charts and concepts newly introduced in statistical process control (SPC) were published in different journals. The complaint was even extended to the results reported in some articles because of the use of no reliable performance measures such as the zero-state average run-length when evaluating the performance of memory-type charts. The charts reported in these articles include:

- The HWMA chart;
- The extended EWMA;
- The GWMA chart;
- Progressive mean control chart;
- Auxiliary information-based control charts;
- Synthetic control charts;
- Neutrosophic control charts.

However, few other articles were also published in order to contradict researchers who campaign against the above charts and concepts. The purpose of this Special Issue is to present a platform that helps researchers freely discuss topics on controversies and provide clear directions for a new area of quality research work in SPC. Since SPC theory cannot be dissociated from statistical inference, researchers are welcome to submit original articles on inference.

Guest Editors

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Deadline for manuscript submissions

closed (30 November 2024)

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About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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