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Experimental Designs and Applications of Statistical Quality Control, Quality Assurance, and Statistical Modelling

Guest Editor:

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Message from the Guest Editor

Experimental designs and statistical process control is one of the most popular data-based methods for process monitoring and is widely used in various industrial areas. Effective routines for process monitoring can help operators to run industrial processes efficiently at the same time as maintaining high product quality. Quality control and improvement is more than an engineering concern. Quality has become a major business strategy for increasing productivity and gaining competitive advantage. Statistical quality control is on the basis of the quality control chart, the use of mathematical statistics methods to make quality control quantitative, and scientific, effective prevention and control of process quality. Statistical quality control refers to the use of statistical techniques for quality control. These techniques include the application of design of experiments, frequency distributions, major trends and discrete measurements, control charts, regression analysis, and significance testing.

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Message from the Editor-in-Chief

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