Special Issue

Statistical Analysis and Modeling in Medical Research

Message from the Guest Editor

We are pleased to announce this Special Issue of the journal Mathematics, entitled "Statistical Analysis and Modeling in Medical Research", which aims to showcase the cutting-edge developments and applications of statistical methods and mathematical models in the medical sciences. We welcome original research articles, reviews, and case studies that highlight innovative statistical techniques, novel modeling approaches, or significant enhancements of existing methods applied to medical data, including but not limited to those in the following areas:

- Mathematical modeling of infectious diseases and epidemiology;
- Machine learning and artificial intelligence in medical diagnostics;
- Bioinformatics and computational biology techniques;
- Statistical genetics and genomics;
- Statistical methods for designing and analyzing clinical trials;
- Survival analysis and time-to-event data modeling;
- Longitudinal and multilevel data analysis;
- Health informatics and big data analytics in healthcare.

Guest Editor

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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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