

# Applied Mathematics in Medicine

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## Editorial Note

Applied mathematics is the application of mathematical techniques to describe real-world systems and solve technologically relevant problems. This can include the mechanics of a moving body, the statistics governing the atoms in a gas or developing more efficient algorithms for computational analysis. These ideas are closely linked with those of theoretical physics.

In this modern era of health care is now inexorably linked to the application of mathematical, Many of the technological advances that physicians use every day are products of concerted efforts of scientists, engineers, and mathematicians.

Mathematics, which in the early days meant arithmetic and geometry and was invented to solve practical problems. Arithmetic was needed to count livestock, compute transactions in trading and bartering, and in making calendars, while geometry was needed in setting boundaries of fields and properties and in the construction of buildings and temples. The nineteenth and twentieth centuries witnessed the rise of abstract fields of mathematics, such as abstract algebra, topology, category theory, differential geometry, etc.

Journal of Applied Mathematics and Statistical Applications deals with mathematical methods and techniques applied widely in science, engineering, business, computer science, and industry.

Volume 2 contains an article on More on the orthogonal complement functions by Jennrich and Satorr, which included Covariance structure analysis, Distribution free tests, Implicit function theorem, QR factorization [1]. Ramm and Van gave a numerical solution of inverse scattering problem with non-over-determined data [2].

With efficient Editorial Board Member the journal is publishing and evaluating work on various mathematics topic. aim of the journal is to publish the most advanced research and discoveries with current developments in the form of original research articles, review articles, case reports, short communications, commentaries, images, video articles, etc.

The journal covers a wide range of topics include but not limited to - Applied mechanics, approximation theory, computational simulation, control, differential equations,

dynamics, inverse problems, modeling, numerical analysis, optimization, probabilistic and statistical methods, stochastic processes, mathematical and computational logic, calculus, Analysis, applied Mathematics, quantity, space, change and structure, computational Model, differential transform Method, dynamical systems, Integrated Analysis, Three dimensional Steady State, nonlinear differential equations, computational Mathematics and actuarial mathematics.

Recently a new model has been discovered which is used for tracking epidemics by accounting for mutations in diseases using mathematical approaches. And now the researchers are working to apply their model to allow leaders to evaluate the effects of countermeasures to epidemics before they deploy them. this model could give leaders another tool to better understand the reasons why, for example, the COVID-19 virus is spreading so much more rapidly than predicted, and thereby help them deploy more effective. This research clearly shows the role of mathematics in the current situation.

Hope the journal will continue quality publication on recent research in this field, journal would like to thank all the eminent authors and editors and reviewers for their valuable contribution and looking forward for more publication.

## References

1. Jennrich RI, Satorra A. Continuous orthogonal complement functions and distribution free goodness of fit tests for covariance structure analysis. *Psychometrika*. 2019;2(1): 11-12.
2. Ramm A, Van C. A numerical solution of inverse scattering problem with non-over-determined data. *J Appl Math Statist Appl*. 2018;2(1):5-7.

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