Editorial

Foundations—A New Journal Dedicated to Fundamental Research

Martin Bohner (ID)

Department of Mathematics and Statistics, Missouri University of Science and Technology, Rolla, MO 65409-0020, USA; bohner@mst.edu

1. The Motivation to Launch the Journal *Foundations*

Fundamental or basic research is the cornerstone of building knowledge in science. Driven by curiosity, it aims to explain and provide a better understanding of natural phenomena and the fundamental laws of nature. In the 20th century, the theory of relativity, quantum mechanics and the establishment of DNA models have formed a new view of space and time, motion and matter for mankind, which is of profound significance to the progress of human civilization.

Investing in fundamental research is relevant to any society as it generates impartial insights and is the building block for technical and social innovation, which brings many benefits in the long term. The outcome of investing in fundamental research is technology innovation.

Challenges faced by scientists pursuing basic research include the lack of interest from private investment due to its noncommercial nature and the disregard of the general public for a type of research that does not provide an immediate outcome. As a consequence, it relies heavily on public funding.

We believe that fundamental research should not be ignored and needs a platform to openly share information on recent knowledge that will support the development of new technologies.

2. Our Expectation on This Journal

The new journal shall contribute to motivate scientists to work on fundamental questions by offering a dedicated platform, where their results can be published and discussed openly. We hope that one day, *Foundations* (ISSN 2673-9321) can be recognized by all scholars who conduct fundamental research and are willing to publish their work in this journal. We aim to publish research in the following scientific fields:

- Mathematics
- Physics
- Chemistry
- Biology
- Engineering
- Earth Sciences
- Materials
- Information Sciences
- Medicine

Conflicts of Interest: The author declares no conflict of interest.

Short Biography of the Author

Martin Bohner is the Curators' Distinguished Professor of Mathematics and Statistics at Missouri University of Science and Technology in Rolla, Missouri, USA. He received the BS (1989) and MS (1993) in Econo-mathematics and PhD (1995) from University Ulm, Germany, and MS (1992) in Applied Mathematics from San Diego State University. He was a Postdoc, sponsored by the Alexander von Humboldt-Foundation, at National Uni-versity of Singapore (1997) and at San Diego State University (1998). His research interests center around difference, differential and dynamic equations as well as their applications to economics, finance, biology, physics and engineering. He is the author of seven textbooks and more than 300 publications, Editor-in-Chief of five international journals and Associate Editor for almost 100 international journals. Martin Bohner is a Past President of ISDE, the International Society of Difference Equations. His work has been cited more than 16,000 times in the literature, including around 5000 citations of his book "Dynamic Equations on Time Scales: An Introduction with Applications", co-authored with Professor Allan Peterson. His h-index is 55 and his i10-index is 201. Professor Bohner's honors at Missouri S&T include five Faculty Excellence Awards, one Faculty Research Award and eight Teaching Awards.