Modern challenges in Statistics and Mathematics

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EDITORIAL

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EDITORIAL NOTE

We exist in an amazing time. We have a greater understanding of the world around us because to incredible developments in science and engineering. Simultaneously, we are witnessing significant advances in technology, the environment, societal organisation, and economic prosperity. Technological advancements have progressed hand in hand with advances in mathematical and statistical studies from the birth of human societies. With a variety of outstanding studies and historical accounts, the interconnections and interconnectedness of mathematics, physics, technology, and biology have been fully explored in the research. Mathematical and statistical models lie at the heart of these interactions and interdependencies. Their importance will continue to grow in both classic (e.g., physics and engineering) and emergent (e.g., health and life sciences) fields. Furthermore, we are seeing a huge growth in computing power as well as astonishing developments in computational science and engineering, all of which are assisting in the development of this trend. Numerous other fields are now catching up to this tendency as well. To effectively handle these difficulties, the role of multidisciplinary contacts, as well as mathematical, statistics, and computational models, which provide a primary link for such interactions, will keep growing. Elements of many complex systems found in nature, application fields, and culture engage in a wonderfully dynamic manner in aggressive, and often uncertain, contexts. To better understand them, new numerical simulations, particularly probabilistic models, as well as new ways for percent in fiscal are required. New issues in the modern world and modern culture allow for the construction of inventory methods based on mathematical and statistical theories, methodologies, and tools by academics working on a variety of topics in economics and finance, social, environment, and social science. As a consequence, the unprecedented scientific, technological, and sociological challenges we confront in the twenty-first decade can only be effectively handled by working closely with mathematicians and statisticians who construct quantitative frameworks. Simultaneously, such problems will spur the development of new models and ideas in mathematical and statistical sciences, resulting in a slew of new achievements in the two interactions among mathematics and statistics on the one side, and other fields on the other.

We've identified a few domains in this section that reflect a broad range of the multidisciplinary interaction where mathematical, statistical, and computational models play a key role. Such simulations are crucial for technological advancements and innovation in fields extending from mechanics to biology. Throughout biology to economics and finance, from security and defence to environmental studies, there's something for everyone.