

Special Issue

Mathematical Analysis, Analytic Number Theory and Applications

Message from the Guest Editors

The Special Issue *Mathematical Analysis, Analytic Number Theory, and Applications* will publish research as well as selected survey papers devoted to the broad, very active, and vibrant domains of Pure Mathematical Analysis as well as Analytic Number Theory, along with their various applications. Emphasis will be given to the presentation of some of the most modern results in the corresponding areas as well as to highlight properties of *symmetry* whenever this is applicable. Subjects that will be studied within the scope of this Special Issue are fixed point theory; operator theory; topological methods for non-linear mappings; eigenvalue problems; calculus of variations; symmetry principles; analytic inequalities; functional equations in several variables; stability theory; as well as problems associated with trigonometric/exponential sums, zeta functions, the Riemann Hypothesis, etc. The papers published in this Issue will deepen our knowledge of various areas of mathematical research, and hopefully be useful to a wide audience, as well as research mathematicians who wish to have the latest results in corresponding subjects.

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About the Journal

Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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