



Modern Analysis and Partial Differential Equation

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Message from the Guest Editors

Modern analysis, including but not limited to harmonic analysis, functional analysis, microlocal analysis, and geometry analysis is a central topic within mathematical analysis. Growing out of classical Fourier and harmonic analysis, it has developed broadly into many fields of mathematical analysis and partial differential equations, both pure and applied.

This Special Issue, titled “Modern Analysis and Partial Differential Equations,” is designed to promote the modern analysis method in general, but with a preference for application-oriented papers or survey papers describing concrete aspects of modern analysis and their applications to partial differential equations.

As example topics (though it is not an exhaustive list) let us mention the following areas on Euclidean space or manifolds: operator theory and operator algebra, Fourier Analysis (of functions or distributions), microlocal analysis, harmonic or wavelet analysis, pseudo-differential and Fourier integral operators, dynamic behavior of linear or nonlinear dispersive equations, transport equation and kinetic theory, fluid mechanics, quantum mechanics and more.





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Message from the Editor-in-Chief

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