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Special Issue on Spectral Theory

Call for Papers

Spectral theory is an inclusive term for theories extending the eigenvector and eigenvalue theory of a single square matrix to a much broader theory of the structure of operators in a variety of mathematical spaces. It is a result of studies of linear algebra and the solutions of systems of linear equations and their generalizations. As most of problems in mechanics, physics and engineering technology can be attributed to mathematical algebraic equations, differential equations, integral equations or differential integral equations under some conditions. Therefore, **spectral theory** could be applied in those areas to solve similar problems.

In this special issue, we invite front-line researchers and authors to submit original research and review articles that explore **spectral theory**. In this special issue, potential topics include, but are not limited to:

- Schrodinger operators
- Eigen values: perturbation theory, asymptotic and inequalities
- Quantum graphs, graph Laplacian
- Pseudo-differential operators and semi-classical analysis
- Random matrix theory
- The Anderson model and other random media
- Orthogonal polynomials;
- Linear and nonlinear differential operators

Authors should read over the journal's <u>Authors' Guidelines</u> carefully before submission. Prospective authors should submit an electronic copy of their complete manuscript through the journal's <u>Paper Submission System</u>.

Please kindly specify the "**Special Issue**" under your manuscript title. The research field "**Special Issue** - *Spectral Theory*" should be selected during your submission.

Also please note the following timetable:

Submission Deadline	September 29th, 2015
Publication Date	November 2015

Guest Editor:

For further questions or inquiries Please contact Editorial Assistant at apm@scirp.org