



Special Issue on Convex Analysis and Optimization

Call for Papers

Convexity has been increasingly important in recent years in the study of extremum problems in many areas of mathematics. Convexity also develops the convex analysis theory, covering conjugacy, subgradients, the Fenchel min-max duality, separation theorems and lagrange duality framework. The convex analysis theory has some good properties, for example, convex spectral functions can be characterized exactly as symmetric convex functions of the eigenvalues in convex sets and convex functions theory. For the good properties and wide application of this theory, more and more economists, engineers, and other researchers besides pure mathematicians have shown keen interests in **convex analysis and optimization**.

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

- The algebra of convex sets
- Convex functions
- The differential theory in convex analysis
- Fenchel's duality theorem
- Topological properties in convex analysis
- Saddle-functiond and min-max theory
- The applications of convex analysis

Authors should read over the journal's [Authors' Guidelines](#) carefully before submission. Prospective authors should submit an electronic copy of their complete manuscript through the journal's [Paper Submission System](#).

Please kindly note that the "**Special Issue**" under your manuscript title should be specified and the research field "**Special Issue - Convex Analysis and Optimization**" should be selected during your submission.

Also please note the following timetable:

Submission Deadline	July 10th, 2014
Publication Date	September 2014

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