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Contains contributions by some of the top experts in their relative fields

Presents a collection of papers reflecting a wide spectrum of state-of-the-art investigations in the area

Presents recent developments in the field, keeping the reader up to date

Asymptotic Geometric Analysis is concerned with the geometric and linear properties of finite dimensional objects, normed spaces, and convex bodies, especially with the asymptotics of their various quantitative parameters as the dimension tends to infinity. The deep geometric, probabilistic, and combinatorial methods developed here are used outside the field in many areas of mathematics and mathematical sciences. The Fields Institute Thematic Program in the Fall of 2010 continued an established tradition of previous large-scale programs devoted to the same general research direction. The main directions of the program included:

- * Asymptotic theory of convexity and normed spaces
- * Concentration of measure and isoperimetric inequalities, optimal transportation approach
- * Applications of the concept of concentration
- * Connections with transformation groups and Ramsey theory
- * Geometrization of probability
- * Random matrices
- * Connection with asymptotic combinatorics and complexity theory

These directions are represented in this volume and reflect the present state of this important area of research. It will be of benefit to researchers working in a wide range of mathematical

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sciences_in particular functional analysis, combinatorics, convex geometry, dynamical systems, operator algebras, and computer science.

Content Level » Research

Keywords » Banach representations - Ramsey Theory - Urysohn type spaces - convex geometry - extremal combinatorics - topological dynamics

Related subjects » Algebra - Analysis - Geometry & Topology - Probability Theory and Stochastic Processes

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