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Sinopsis

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Features recent mathematical developments from leaders in the field
Presents directions for future work in the subject
Includes contributions on the unexpected and surprising interface between abstract problems in additive number theory and experimentally discovered optical phenomena in physics?
Recent Advances in Harmonic Analysis and Applications is dedicated to the 65th birthday of Konstantin Oskolkov and features contributions from analysts around the world.

The volume contains expository articles by leading experts in their fields, as well as selected high quality research papers that explore new results and trends in classical and computational harmonic analysis, approximation theory, combinatorics, convex analysis, differential equations, functional analysis, Fourier analysis, graph theory, orthogonal polynomials, special functions, and trigonometric series.

Numerous articles in the volume emphasize remarkable connections between harmonic analysis and other seemingly unrelated areas of mathematics, such as the interaction between abstract problems in additive number theory, Fourier analysis, and experimentally discovered optical phenomena in physics. Survey and research articles provide an up-to-date account of various vital directions of modern analysis and will in particular be of interest to young researchers who are just starting their career. This book will also be useful to experts in analysis, discrete mathematics, physics, signal processing, and other areas of science.

Content Level » Research

Keywords » Approximation Theory - Compressive Sensing - Harmonic - Orthogonal Polynomials - Sparse Representation - Trigonometric Series

Related subjects » Analysis - Computational Science & Engineering - Dynamical Systems & Differential Equations - Number Theory and Discrete Mathematics