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Nota di contenuto	Radon transform: dual pairs and irreducible representations -- Data approximation with time-frequency invariant systems -- The Shearlet transform and Lizorkin spaces -- Time-frequency localization operators: state of the art -- Time-frequency analysis: what we know and what we don't -- Some notes about distribution frame multipliers -- Generalized Anti-Wick quantum states -- Signal analysis and quantum formalism. Quantizations with no Planck constant -- Quantization methods in ocular fundus imaging: analysis of retinal microvasculature -- A time-frequency analysis perspective on Feynman path integrals.
Sommario/riassunto	This contributed volume features chapters based on talks given at the second international conference titled Aspects of Time-Frequency Analysis (ATFA 19), held at Politecnico di Torino from June 25th to June 27th, 2019. Written by experts in harmonic analysis and its applications, these chapters provide a valuable overview of the state-of-the-art of this active area of research. New results are collected as well, making this a valuable resource for readers seeking to be brought up-to-date. Topics covered include: Signal analysis Quantum theory Modulation space theory Applications to the medical industry Wavelet transform theory Anti-Wick operators Landscapes of Time-Frequency Analysis: ATFA 2019 will be of particular interest to researchers and advanced students working in time-frequency analysis and other related areas of harmonic analysis.