

1. Record Nr.	UNINA9910254281903321
Titolo	Generalized Functions and Fourier Analysis : Dedicated to Stevan Pilipovi on the Occasion of his 65th Birthday // edited by Michael Oberguggenberger, Joachim Toft, Jasson Vindas, Patrik Wahlberg
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Birkhäuser, , 2017
ISBN	3-319-51911-5
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (VIII, 276 p. 4 illus.)
Collana	Advances in Partial Differential Equations, , 2504-3595 ; ; 260
Disciplina	515.782
Soggetti	Differential equations Harmonic analysis Functional analysis Operator theory Differential Equations Abstract Harmonic Analysis Functional Analysis Operator Theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	J. Vindas & D. Vuckovic (Ghent), "Ultradistributional boundary values of harmonic functions on the sphere" -- J. Vindas & G. Debruyne (Ghent), "A functional-analytic view on the Wiener-Ikehara theorem" -- M. Oberguggenberger & M. Schwarz (Innsbruck), "Fourier integral operators in random media" -- M. Kunzinger, P. Giordano (Vienna), "Generalized smooth functions" -- S.-Y. Chung (Seoul), "Blow-up Solutions to Discrete Semilinear Heat Equations on Networks" -- H. Vernaeve (Ghent), "Microlocal analysis in Colombeau algebras based on generalized points and generalized directions" -- A. Debrouwere (Ghent), "Embeddings of periodic ultradistributions into Colombeau type algebras" -- G. Omelyanov (Hermosillo), "Interaction of solitary waves for essentially non-integrable equations. Asymptotic approach" -- T. Levajkovic (Innsbruck and Belgrade), "Optimal control for stochastic evolution equations" -- M. Cappiello (Torino), TBA -- S.

Coriasco (Torino) -- H. Feichtinger (Vienna), "Function spaces" -- L. Rodino (Torino) -- M. Ruzhansky (London) -- N. Teofanov (Novi Sad), Topic: "Time-frequency analysis and pseudodifferential operators" -- P. Popivanov (Sofia), Topic: "Subelliptic estimates, solvability and hypoellipticity of several classes of PDE with involutive characteristics" -- Y. Sawano (Hachioji), Topic: "Boundedness of pseudodifferential operators" -- J. Toft (Växyö) -- V. Turunen (Helsinki), Topic: "Time-frequency analysis".

Sommario/riassunto

This book gives an excellent and up-to-date overview on the convergence and joint progress in the fields of Generalized Functions and Fourier Analysis, notably in the core disciplines of pseudodifferential operators, microlocal analysis and time-frequency analysis. The volume is a collection of chapters addressing these fields, their interaction, their unifying concepts and their applications and is based on scientific activities related to the International Association for Generalized Functions (IAGF) and the ISAAC interest groups on Pseudo-Differential Operators (IGPDO) and on Generalized Functions (IGGF), notably on the longstanding collaboration of these groups within ISAAC.
