

## Contents

Preface	vii
Dimension preserving approximation and estimation: Fractal surfaces and Riemann-Liouville fractional integrals EKTA AGRAWAL and SAURABH VERMA	1
Optimal quantization for nonuniform discrete distributions RUSSEL CABASAG, SAMIR HUQ, ERIC MENDOZA, and MRINAL KANTI ROYCHOWDHURY	25
Coherent upper conditional previsions based on Hausdorff measures and its applications in Artificial Intelligence SERENA DORIA	45
Fractal interpolation surfaces generated by Rakotch type contraction mappings VASILEIOS DRAKOPOULOS and SONG-IL RI	57
Inhomogeneous attractors and box dimension JONATHAN M. FRASER	67
Fractal Measures and their induced Gaussian processes PALLE E.T. JORGENSEN and JAMES TIAN	87
Ćirić contractions and Banach-valued fractal interpolation functions MARÍA A. NAVASCUÉS, R. MICULESCU, B. C. ANGHELINA, and RAM N. MOHAPATRA	105
Comparison of Hausdorff dimension of $E(F_1)$ and $E(F_2)$ for $F_1, F_2 \subset \mathbb{N}$ R. D. NUSSBAUM	123
Multifractal zeta-functions and multifractal prime counting formulas LARS OLSEN	135
Spectrality of certain self-affine measures MEGALA and SRIJANANI ANURAG PRASAD	171
General Hewitt-Stromberg measures: Properties and their role in multifractal formalism TINGTING WANG, BILEL SELMI, and ZHIMING LI	181

Proof of Wojtkowski's falling particle conjecture NANDOR SIMANYI	217
Further analysis of Hausdorff dimension and separation conditions SAURABH VERMA and AMIT PRIYADARSHI	225