ALMOST CONVERGENCE METHOD WITH FRACTIONAL ORDER OPERATOR

Murat KİRİŞCİ[1]

[1]*Department of Mathematical Education, Istanbul University, İstanbul/TURKEY*
mkirisci@hotmail.com
murat.kirisci@istanbul.edu.tr

Abstract: The purpose of this paper is twofold. First, basic concepts such as Gamma function, almost convergence, fractional order difference operator and sequence spaces are given as a survey character. Thus, the current knowledge about those concepts are presented. Second, we construct the almost convergent spaces with fractional order difference operator and compute dual spaces which are help us in the characterization of matrix mappings. After we characterize to the matrix transformations, we give some examples. In this paper, the notation $\Gamma(n)$ will be shown the Gamma function. For $n \notin \{0, -1, -2, ...\}$, Gamma function defined by an improper integral $\Gamma(n) = \int_0^\infty e^{-t} t_{n-1} dt$.

Keywords: Gamma Function, almost convergence, fractional order operator, matrix domain

References:

[1] B. Altay, F. Başar "Certain topological properties and duals of the domain of a triangle matrix in a sequence spaces", J. Math. Anal. Appl., 336, (2007), 632-645.

[2] P. Baliarsingh, "Some new difference sequence spaces of fractional order and their dual space", Appl. Math. Comput., 219, (2013), 9737.

[3] P. Baliarsingh, "On the classes of fractional order difference sequence spaces and their matrix tarnsformations", Appl. Math. Comput., 250, (2015), 635.

[4] U. Kadak, P. Baliarsingh "On certain Euler difference sequence spaces of fractional order and related dual properties", J. Nonlinear Sci. Appl., 8 (2015), 997.

[5] M. Kirişci, "Almost convergence and generalized difference matrix", Comp. Math. Appl., 61 (2011), 602.

ON WIJSMAN ASYMPTOTICALLY DEFERRED STATISTICAL EQUIVALENT OF SEQUENCES 192
Mikail ET
NECESSARY CONDITIONS AND SUFFICIENT CONDITIONS FOR NONEXISTENCE RESULTS TO CERTAIN EVOLUTION EQUATION 193
Mohamed BERBICHE
ANALYTICAL SOLUTION OF A CLASS OF NONLINEAR VOLTERRA INTEGRAL EQUATIONS USING VARIATIONAL ITERATION METHOD 194
Mohammed S. MECHEE, RaadM. KADUM
A NOT ON PROPERTIES THAT IMPLY THE FIXED POINT PROPERTY 195
Mohammad KNEFATI, Vatan KARAKAYA
INTEGRAL TYPE ALMOST CONTRACTION MAPPINGS IN METRIC SPACES 196
M. Abdussamed MALDAR, Vatan KARAKAYA
MAXIMUM NORM ANALYSIS OF SCHWARZ METHOD FOR ELLIPTIC QUASI-VARIATINALIN EQUALITIE 197
Mohammed BEGGAS, Mohamed HAIOUR
VARIATION DIMINISHING INTEGRAL OPERATORS OF THE CONVOLUTIONS TYPE ASSOCIATED WITH THE DUNKL OPERATOR ON R 198
Moncef DZIRI
PERTURBED PARTIAL FRACTIONAL ORDER FUNCTIONAL DIFFERENTIAL EQUATIONS WITH INFINITE DELAY IN FRECHET SPACES 198
Mouffak BENCHOHRA, Mohamed HELLAL
ON SHERMAN'S INEQUALITY 199
Muhammad Adil KHAN
ON GENERALIZED DIFFERENCE SEQUENCES OF FUNCTIONS 199
Muhammed ÇINAR, Mikail ET
INVERSE SOURCE PROBLEM FOR TIME-FRACTIONAL HEAT EQUATION WITH A GENERALIZED IMPEDANCE BOUNDARY CONDITION 200
Muhammed ÇİÇEK, Mansur İSGENDEROĞLU (ISMAILOV)
A HYBRIDIZABLE DISCONTINUOUS GALERKIN METHOD FOR A CLASS OF FRACTIONAL BOUNDARY VALUE PROBLEM *201*
Mehmet Fatih KARAASLAN, Muhammet KURULAY
OSTROWSKI TYPE INEQUALITIES FOR GENERALIZED s-CONVEX FUNCTIONS IN THE SECOND SENSE 202
Muharrem TOMAR, Erhan SET
ON *I*-CONVERGENCE OF SEQUENCES OF FUNCTIONS IN 2-NORMED SPACES 203
Mukaddes ARSLAN, Erdinç DÜNDAR
DEFECT-DEFERRED CORRECTION METHOD FOR A FLUID FLOW AT HIGH REYNOLDS NUMBERS 203
Mustafa AGGÜL
ALMOST CONVERGENCE METHOD WITH FRACTIONAL ORDER OPERATOR 204
Murat KİRİŞCİ
ON SOME FIXED POINT THEOREMS WITH GENERALIZED CONTRACTIONSIN COMPLETE CONE METRIC SPACE SENDOWED WITH A PARTIAL ORDER AND INVOLVING A GRAPH 205
Murat CANCAN
DISCUSSION ON ADVECTION-DIFFUSION EQUATION THROUGH FINITE DIFFERENCE SCHEMES 206
Murat SARI, Lamia J.M. Al-MASHHADANI, Arshed A. AHMAD
THE GENERATING FUNCTIONS FOR THE FAMILY OF THE GENERALIZED BERNOULLI POLYNOMIALS 207
Mustafa ALKAN
TWO NEW PROOFS OF GENERALIZED BIPERIODIC FIBONACCI IDENTITY IN TERMS OF THE DETERMINANTS OF TRIDIAGONAL MATRIX 207
Yasin YAZLIK, Musa BAŞBÜK

Mehmet GÜMÜŞ 184
Mehmet GÜRDAL 303
Mehmet KÜÇÜKASLAN 180
Mehmet SEZER 170, 329
Mehmet ŞENGÖNÜL 274
Mehmet ŞENOL 185, 275
Melek Kübra AYHAN 186
Meltem KAYA 187
Merve AVCI-ARDIÇ 51
Merve İLKHAN 94, 188
Merve TEMİZER ERSOY 189
Meryem ÖZBUNAR 190
Mesut COŞKUN 191
Metin BAŞARIR 65, 94
Mikail ET 133, 192, 199
Mohamad JAWAD 58
Mohamed BERBICHE 193
Mohamed Dalah 324
Mohamed DALAH 327, 341, 345
Mohamed El Amine BENCHEIK LE HOCINE 342
Mohamed HAIOUR 197
Mohamed HELLAL 198
Mohamed NEHARI 351
Mohammad IMDAD 46, 181
Mohammad KNEFATI 195
Mohammad MURSALEEN 25
Mohammed BEGGAS 197
Mohammed DERHAB 351
Mohammed S. MECHEE 194
Moncef DZIRI 198
Mouffak BENCHOHRA 198
Muge TOGAN 163
Muhammad Adil KHAN 199
Muhammed ÇINAR 199
Muhammed ÇİÇEK 164, 200
Muhammet KURULAY 201
Muharrem TOMAR 202
Mukaddes ARSLAN 203
Murat BEŞENK 71
Murat CANCAN 205
Murat COBANER 293
Murat KİRİŞCİ 204
Murat SARI 206
Musa BAŞBÜK 207
Mustafa ALKAN 207
Mustafa AYDIN 169
Mustafa Cemil BİŞGİN 208
Mustafa Ç. KORKMAZ 229
Mustafa KUDU 209
Mustapha CHEGGAG 231
Mutlay DOGAN 210
Müfit ŞAN 211
Müzeyyen ERTÜRK 110, 212

N

N. BOUSSETİLA 40
N. CHAOUCHKHOUANE 322
N. DJITTE 218
N.ABADA 212
Nadir TRABELSI 284
Nadjet ABADA 322
Nazli KARACA 213
Nazneen KHAN 214
Necip ŞİMŞEK 215
Neslihan Fatma Er 216
Neslihan ZORLU 232
Nesrin MANAV 217
Nezrin GADIROVA 213
Nihal YOKUS 219, 221
Nihat AKGÜNEŞ 220
Nilay SAGER 350
Nimet COSKUN 219, 221
Nimet PANCAROĞLU AKIN 222
Nour El Houda BOUZARA 86, 222
Noureddine BENRABIA 223
Nurcan GÜCÜYENEN 224
Nurgül OKUR BEKAR 225
Nuri ÖZALP 241
Nurullah YILMAZ 127, 226
Nüket AYKUT HAMAL 122

O

O. DIOP 218
Olaniyi Samuel IYIOLA 317
Olgun CABRİ 227
Omar HİRZALLAH 157
Omer YAPMAN 228
Orhan Mazlum YAZAR 229
Orkun TAŞBOZAN 317
Osman ALAGÖZ 230
Osman Raşit IŞIK 80, 190
Ouahab ABDELGHANI 330
Ould Melha KHELLAF 231
Oya MERT 232
Ozer TALO 251

Ö

Ömer AKGÜLLER 182, 233
Ömer Faruk GÖZÜKIZIL 299
Ömer KİŞİ 103, 235, 273
Özer TALO 235, 314
Özge ÇOLAKOĞLU HAVARE 238
Özge DALMANOĞLU 239
Özlem AK GÜMÜŞ 236, 237, 343
Özlem ERSOY HEPSON 240
Özlem ÖZTÜRK MIZRAK 241