

Authors	Title	Journal	Publication year	Volume	Issue	Pages
Akcay NI,Nagy B,Tuzmen S	Reaction Systems for Modeling and Validation of Biological Signaling Pathways: G1/S Checkpoint of the Cell Cycle	ACTA POLYTECHNICA HUNGARICA	2021	18	6	7-23
Mahmudov NI	Finite-Approximate Controllability of Riemann-Liouville Fractional Evolution Systems via Resolvent-Like Operators	FRACTAL AND FRACTIONAL	2021	5	4	
Ogurlu SZ,Elidemir I	On the ω -multiple Meixner polynomials of the second kind	JOURNAL OF DIFFERENCE EQUATIONS AND APPLICATIONS	2021	27	7	966-985
Buranay SC,Ozarslan MA,Falahhesar SS	Numerical Solution of the Fredholm and Volterra Integral Equations by Using Modified Bernstein-Kantorovich Operators	MATHEMATICS	2021	9	11	
Nagy B	State-deterministic $5' \rightarrow 3'$ Watson-Crick automata	NATURAL COMPUTING	2021	20	4, SI	725-737
Fernandez A	A complex analysis approach to Atangana-Baleanu fractional calculus	MATHEMATICAL METHODS IN THE APPLIED SCIENCES	2021	44	10, SI	8070-8087
Nagy B	Union-Freeness Revisited - Between Deterministic and Nondeterministic Union-Free Languages	INTERNATIONAL JOURNAL OF FOUNDATIONS OF COMPUTER SCIENCE	2021	32	05	551-573
Ozarslan MA,Baran G	On the ω -multiple Charlier polynomials	ADVANCES IN DIFFERENCE EQUATIONS	2021	2021	1	
Ahmadova A,Huseynov IT,Fernandez A,Mahmudov I N	Trivariate Mittag-Leffler functions used to solve multi-order systems of fractional differential equations	COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION	2021	97		
Akcay NI,Bashirov R	Comparison of modelling approaches demonstrated for p16-mediated signalling pathway in higher eukaryotes	BIOSYSTEMS	2021	210		
Buranay SC,Matan AH,Arshad N	Two Stage Implicit Method on Hexagonal Grids for Approximating the First Derivatives of the Solution to the Heat Equation	FRACTAL AND FRACTIONAL	2021	5	1	
Nagy B,Parchami S	On deterministic sensing $5' \rightarrow 3'$ Watson-Crick finite automata: a full hierarchy in 2detLIN	ACTA INFORMATICA	2021	58	3	153-175

Fernandez A,Bouzouina C	Fractionalisation of complex d-bar derivatives	COMPLEX VARIABLES AND ELLIPTIC EQUATIONS	2021	66	3	437-475
Alawneh TN,Tut MA	Using Rough Set Theory to Find Minimal Log with Rule Generation	SYMMETRY-BASEL	2021	13	10	
Buranay SC,Iyikal OC	Incomplete block-matrix factorization of M-matrices using two-step iterative method for matrix inversion and preconditioning	MATHEMATICAL METHODS IN THE APPLIED SCIENCES	2021	44	9, SI	7634-7650
Ahmadova A,Mahmudov I N	Strong convergence of a Euler-Maruyama method for fractional stochastic Langevin equations	MATHEMATICS AND COMPUTERS IN SIMULATION	2021	190		429-448
Saadat M,Nagy B	Digital Geometry on the Dual of Some Semi-regular Tessellations	International Conference on Discrete Geometry and Mathematical Morphology - Springer	2021	12708		283-295
Ahmadova A,Mahmudov I N	Ulam-Hyers stability of Caputo type fractional stochastic neutral differential equations	STATISTICS & PROBABILITY LETTERS	2021	168		
Kurt C,Ozarslan MA,Fernandez A	On a certain bivariate Mittag-Leffler function analysed from a fractional-calculus point of view	MATHEMATICAL METHODS IN THE APPLIED SCIENCES	2021	44	3, SI	2600-2620
Ahmadova A,Mahmudov NI	Langevin differential equations with general fractional orders and their applications to electric circuit theory	JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS	2021	388		
Saadat M,Nagy B	Generating Patterns on the Triangular Grid by Cellular Automata including Alternating Use of Two Rules	12th International Symposium on Image and Signal Processing and Analysis (ISPA)	2021			253-258
Ojo GO,Mahmudov NI	Aboodh Transform Iterative Method for Spatial Diffusion of a Biological Population with Fractional-Order	MATHEMATICS	2021	9	2	
Huseynov TI,Mahmudov IN	A class of Langevin time-delay differential equations with general fractional orders and their applications to vibration theory	JOURNAL OF KING SAUD UNIVERSITY SCIENCE	2021	33	8	
Ozarslan MA,Yasar BY	Δ_h -GOULD-HOPPER APPELL POLYNOMIALS	ACTA MATHEMATICA SCIENTIA	2021	41	4	1196-1222

Ahmadova A, Mahmudov I N	ASYMPTOTIC STABILITY ANALYSIS OF RIEMANN-LIOUVILLE FRACTIONAL STOCHASTIC NEUTRAL DIFFERENTIAL EQUATIONS	MISKOLC MATHEMATICAL NOTES	2021	22	2	503-520
Buranay SC, Arshad N	Implicit Method of High Accuracy on Hexagonal Grids for Approximating the Solution to Heat Equation on Rectangle	AIP Conference Proceedings	2021	2334		
Fahad HM, Fernandez A	Operational calculus for Caputo fractional calculus with respect to functions and the associated fractional differential equations	APPLIED MATHEMATICS AND COMPUTATION	2021	409		
Bashirov AE	On exact controllability of semilinear systems	MATHEMATICAL METHODS IN THE APPLIED SCIENCES	2021	44	9, SI	7455-7462
Yagli C, Ozen E, Akkele S A	Fast hardware-oriented algorithm for 3D positioning in line-of-sight and single bounced non-line-of-sight environments	TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES	2021	29	4	2140+
Ahmadova A, Mahmudov NI	Asymptotic Separation of Solutions to Fractional Stochastic Multi-Term Differential Equations	FRACTAL AND FRACTIONAL	2021	5	4	
Huseynov IT, Ahmadova A, Fernandez A, Mahmudov NI	Explicit analytical solutions of incommensurate fractional differential equation systems	APPLIED MATHEMATICS AND COMPUTATION	2021	390		
Fahad HM, Fernandez A	OPERATIONAL CALCULUS FOR THE RIEMANN-LIOUVILLE FRACTIONAL DERIVATIVE WITH RESPECT TO A FUNCTION AND ITS APPLICATIONS	FRACTIONAL CALCULUS AND APPLIED ANALYSIS	2021	24	2	518-540
Ozarslan MA, Fernandez A	On a Five-Parameter Mittag-Leffler Function and the Corresponding Bivariate Fractional Operators	FRACTAL AND FRACTIONAL	2021	5	2	
Awuya MA, Subasi D	Aboodh Transform Iterative Method for Solving Fractional Partial Differential Equation with Mittag-Leffler Kernel	SYMMETRY-BASEL	2021	13	11	
Nagy B, Mujahed H	DETOUR INDEX FOR BODY-CENTRED CUBIC GRID WITH UNIT CELLS CONNECTED IN A ROW	COMPTES RENDUS DE L ACADEMIE BULGARE DES SCIENCES	2021	74	11	1581-1589
Buranay SC, Arshad N, Matan AH	Hexagonal Grid Computation of the Derivatives of the Solution to the Heat Equation by Using Fourth-Order Accurate Two-Stage Implicit Methods	FRACTAL AND FRACTIONAL	2021	5	4	

Fogarasi K,Nagy B	NOTES ON THE NP-COMPLETENESS OF THE MEMBERSHIP PROBLEM OF ETOL LANGUAGES	COMPTEs RENDUS DE L ACADEMIE BULGARE DES SCIENCES	2021	74	7	964-971
Nagy B,Szokol P	A Genetic Algorithm for the Minimum Vertex Cover Problem with Interval-Valued Fitness	ACTA POLYTECHNICA HUNGARICA	2021	18	4	105-123
Oumarou CM,Fahad HM,Djida JD,Fernandez A	On fractional calculus with analytic kernels with respect to functions	COMPUTATIONAL & APPLIED MATHEMATICS	2021	40	7	
Hamal H,Sabancigil P	Some approximation properties of new (p, q)-analogue of Balazs-Szabados operators	JOURNAL OF INEQUALITIES AND APPLICATIONS	2021	2021	1	
Ozarslan MA,Fernandez A,Area I	Editorial for Special Issue "Fractional Calculus and Special Functions with Applications"	FRACTAL AND FRACTIONAL	2021	5	4	
Fahad HM,Ur Rehman M	Generalized Substantial Fractional Operators and Well-Posedness of Cauchy Problem	BULLETIN OF THE MALAYSIAN MATHEMATICAL SCIENCES SOCIETY	2021	44	3	1501-1524
Nagy B,Valyi S	Circular Interval-valued Computers and Simulation of (Red-green) Turing Machines	FUNDAMENTA INFORMATICA	2021	181	2-3, SI	213-238
Nagy B,Kovacs Z	ON DETERMINISTIC 1-LIMITED 5' → 3' SENSING WATSON-CRICK FINITE-STATE TRANSDUCERS	RAIRO-THEORETICAL INFORMATICS AND APPLICATIONS	2021	55		
Fernandez A,Ustaoglu C,Ozarslan MA	On the analytical development of incomplete Riemann-Liouville fractional calculus	TURKISH JOURNAL OF MATHEMATICS	2021	45	3	1418-1443
Kovacs G,Nagy B,Turgay ND	Distance on the Cairo pattern	PATTERN RECOGNITION LETTERS	2021	145		141-146
Kovacs G,Nagy B,Vizvari B	Weighted distances on the truncated hexagonal grid	PATTERN RECOGNITION LETTERS	2021	152		26-33
Fahad HM,Fernandez A,Rehman MU,Siddiqi M	Tempered and Hadamard-Type Fractional Calculus with Respect to Functions	MEDITERRANEAN JOURNAL OF MATHEMATICS	2021	18	4	
Fernandez A,Ali S,Zada A	On non-instantaneous impulsive fractional differential equations and their equivalent integral equations	MATHEMATICAL METHODS IN THE APPLIED SCIENCES	2021	44	18	13979-13988
Fernandez A,Mohammed P	Hermite-Hadamard inequalities in fractional calculus defined using Mittag-Leffler kernels	MATHEMATICAL METHODS IN THE APPLIED SCIENCES	2021	44	10, SI	8414-8431

Abuhmaidan K,Aldwairi M,Nagy B	Vector Arithmetic in the Triangular Grid	ENTROPY	2021	23	3	
Kovacs G,Nagy B,Stomfai G,Turgay ND,Vizvari B	Discrete Optimization: The Case of Generalized BCC Lattice	MATHEMATICS	2021	9	3	
Fernandez A,Ucar S,Ozdemir N	Solving a well-posed fractional initial value problem by a complex approach	FIXED POINT THEORY AND ALGORITHMS FOR SCIENCES AND ENGINEERING	2021	2021	1	
Fernandez A,Baleanu D	Classes of operators in fractional calculus: A case study	MATHEMATICAL METHODS IN THE APPLIED SCIENCES	2021	44	11	9143-9162
Nigmatullin R,Baleanu D,Fernandez A	Balance equations with generalised memory and the emerging fractional kernels	NONLINEAR DYNAMICS	2021	104	4	4149-4161
Kovacs G,Nagy B,Stomfai G,Turgay ND,Vizvari B	On Chamfer Distances on the Square and Body-Centered Cubic Grids: An Operational Research Approach	MATHEMATICAL PROBLEMS IN ENGINEERING	2021	2021		
Mahmudov I N,Aydin M	Representation of solutions of nonhomogeneous conformable fractional delay differential equations	CHAOS SOLITONS & FRACTALS	2021	150		
Kusper G,Biro C,Nagy B	Resolvable Networks-A Graphical Tool for Representing and Solving SAT	MATHEMATICS	2021	9	20	
Daher R,Fernandez A,Restrepo JE	Characterising Extended Lipschitz Type Conditions with Moduli of Continuity	RESULTS IN MATHEMATICS	2021	76	3	
Boruah K,Hazarika B,Bashirov AE	Solvability of Bigeometric Differential Equations by Numerical Methods	BOLETIM SOCIEDADE PARANAENSE DE MATEMATICA	2021	39	2	203-222
Fernandez A,Djida JD	Fractional differential relations for the Lerch zeta function	ARCHIV DER MATHEMATIK	2021	117	5	515-527
Aliev FA,Aliyev NA,Hajiyeva NS,Mahmudov I N	SOME MATHEMATICAL PROBLEMS AND THEIR SOLUTIONS FOR THE OSCILLATING SYSTEMS WITH LIQUID DAMPERS: A REVIEW	APPLIED AND COMPUTATIONAL MATHEMATICS	2021	20	3	339-365