

TABLE OF CONTENTS, JOURNAL OF COMPUTATIONAL ANALYSIS AND APPLICATIONS, VOL. 26, NO. 1, 2019

An application of Binomial distribution series on certain analytic functions, Waqas Nazeer, Qaisar Mehmood, Shin Min Kang, and Absar Ul Haq,.....	11
Soft rough approximation operators via ideal, Heba.I. Mustafa,.....	18
Stability of C^* -ternary quadratic 3-homomorphisms, Hossein Piri, S. H. Aslani, V. Keshavarz, Choonkil Park, and Sun Young Jang,.....	36
Stability of functional equations in Šerstnev probabilistic normed spaces, Choonkil Park, V. Arasu, and M. Angayarkanni,.....	42
New subclass of analytic functions in conic domains associated with q - Sălăgean differential operator involving complex order, R. Vijaya, T. V. Sudharsan, M. Govindaraj, and S. Sivasubramanian,.....	50
Fourier series of sums of products of ordered Bell and Genocchi Functions, Taekyun Kim, Dae San Kim, Lee Chae Jang, and D. V. Dolgy,.....	58
Two transformation formulas on the bilateral basic hypergeometric series, Qing Zou,.....	73
The p -moment exponential estimates for neutral stochastic functional differential equations in the G -framework, Faiz Faizullah, A.A. Memom, M.A. Rana, and M. Hanif,.....	81
Generalized contractions with triangular α -orbital admissible mappings with respect to η on partial rectangular metric spaces, Suparat Baiya and Anchalee Kaewcharoen,.....	91
On stability problems of a functional equation deriving from a quintic function, D. Kang and H. Koh,.....	110
Comparisons of isolation numbers and semiring ranks of fuzzy matrices, Seok-Zun Song and Young Bae Jun,.....	121
Some properties of certain difference polynomials, Yong Liu, Yuqing Zhang, and Xiaoguang Qi,.....	130
Stability of ternary Jordan bi-derivations on C^* -ternary algebras for bi-Jensen functional equation, Sedigheh Jahedi, Vahid Keshavarz, Choonkil Park, and Sungsik Yun,.....	140

**TABLE OF CONTENTS, JOURNAL OF COMPUTATIONAL
ANALYSIS AND APPLICATIONS, VOL. 26, NO. 1, 2019**

(continued)

A nonmonotone smoothing Newton algorithm for circular cone complementarity problems, Xiaoni Chi, Hongjin Wei, Zhongping Wan, and Zhibin Zhu,.....146

Duality in nondifferentiable multiobjective fractional programming problems involving second order $(F, b, \phi, \rho, \theta)$ – univex functions, Meraj Ali Khan, Amira A. Ishan, and Falleh R. Al-Solamy,.....163

Coupled coincidence point theorems and cone b-metric spaces over Banach algebras, Young-Oh Yang and Hong Joon Choi,.....176

TABLE OF CONTENTS, JOURNAL OF COMPUTATIONAL ANALYSIS AND APPLICATIONS, VOL. 26, NO. 2, 2019

Fourier series of sums of products of ordered Bell and Euler functions, Taekyun Kim, Dae San Kim, Gwan-Woo Jang, and Jin-Woo Park,.....	201
Fekete Szegő problem for some subclasses of multivalent non-bazilevič function using differential operator, C. Ramachandran, D. Kavitha, and Wasim Ul-Huq,.....	216
A new interpretation of Hermite-Hadamard’s type integral inequalities by the way of time scales, Saeeda Fatima Tahir, Muhammad Mushtaq, and Muhammad Muddassar,.....	223
The general solution and Ulam stability of inhomogeneous Euler-Cauchy dynamic equations on time scales, Yonghong Shen and Deming He,.....	234
Some existence theorems of generalized vector variational-like inequalities in fuzzy environment, Jiraprapa Munkong, Ali Farajzadeh, and Kasamsuk Ungchittrakool,.....	242
Strong differential superordination and sandwich theorem obtained with some new integral operators, Georgia Irina Oros,.....	256
Weighted composition operators from Zygmund-type spaces to weighted-type spaces, Yanhua Zhang,.....	262
Positive solutions for a singular semipositone boundary value problem of nonlinear fractional differential equations, Xiaofeng Zhang and Hanying Feng,.....	270
Existence and uniqueness of positive solutions of fractional differential equations with infinite-point boundary value conditions, Qianqian Leng, Jiandong Yin, and Pinghua Yan,.....	280
Dynamical analysis of a non-linear difference equation, Erkan Taşdemir and Yüksel Soykan,	288
A new fixed point theorem in cones and applications to elastic beam equations, Wei Long and Jing-Yun Zhao,.....	302
A septendecic functional equation in matrix normed spaces, Murali Ramdoss, Choonkil Park, Vithya Veeramani, and Young Cho,.....	318
A novel similarity measure for pseudo-generalized fuzzy rough sets, Zhan-hong Shi and Ding-hai Zhang,.....	334

**TABLE OF CONTENTS, JOURNAL OF COMPUTATIONAL
ANALYSIS AND APPLICATIONS, VOL. 26, NO. 2, 2019**

(continued)

Fourier series of functions involving higher-order Euler polynomials, Taekyun Kim, Dae San Kim, Lee Chae Jang, and Gwan-Woo Jang,.....348

Fermat type equations or systems with composite functions, Kai Liu and Lei Ma,.....362

On shared value properties of difference Painlevé equations, Xiaoguang Qi and Jia Dou,.....373

TABLE OF CONTENTS, JOURNAL OF COMPUTATIONAL ANALYSIS AND APPLICATIONS, VOL. 26, NO. 3, 2019

Nonlinear evolution equations with delays satisfying a local Lipschitz condition, Jin-Mun Jeong and Ah-ran Park,.....	393
Investigation of α -C-class functions with applications, Aftab Hussain, Arslan Hojat Ansari, Sumit Chandok, Dong Yun Shin, and Choonkil Park,.....	404
Generalizations of Hua's inequality in Hilbert C^* -modules, F. G. Gao and G. Q. Hong,.....	415
Fourier series of functions related to higher-order Genocchi polynomials, Taekyun Kim, Dae San Kim, Gwan-Woo Jang, and Jongkyum Kwon,.....	421
Value distribution and uniqueness of certain types of q -difference polynomials, Yunfei Du, Zongsheng Gao, Minfeng Chen, and Ming Zhao,.....	438
New Exact Penalty Function Methods with ϵ -approximation and Perturbation Convergence for Solving Nonlinear Bilevel Programming Problems, Qiang Tuo and Heng-you Lan,.....	449
Approximate n -Jordan $*$ -derivations on induced fuzzy C^* -algebras, Gang Lu, Jincheng Xin, Choonkil Park, and Yuanfeng Jin,.....	459
Recurrence formulas for Eulerian polynomials of type B and type D, Dan-Dan Su and Yuan He,.....	469
Certain subclasses of bi-univalent functions of complex order associated with the generalized Meixner-Pollaczek polynomials, C. Ramachandran, T. Soupramanien, and Nak Eun Cho,...	484
Integral Inequalities of Simpson's Type for Strongly Extended (s,m) -Convex Functions, Jun Zhang, Zhi-Li Pei, and Feng Qi,.....	499
Fixed points of multivalued nonexpansive mappings in Kohlenbach hyperbolic space, Birol Gunduz, Ebru Aydođdu, and Halis Aygün,.....	509
Double-framed soft sets with applications in BE-algebras, Jeong Soon Han and Sun Shin Ahn,.....	520
Hyers-Ulam stability of additive function equations in paranormed spaces, Choonkil Park, Su Min Kwon, and Jung Rye Lee,.....	532
New Uzawa-type method for nonsymmetric saddle point problems, Shu-Xin Miao , Juan Li,	539

**TABLE OF CONTENTS, JOURNAL OF COMPUTATIONAL
ANALYSIS AND APPLICATIONS, VOL. 26, NO. 3, 2019**

(continued)

Fuzzy Hyers-Ulam stability for generalized additive functional equations, Sung Jin Lee, Hassan Azadi Kenary, and Choongkil Park,.....	545
n-Jordan *-derivations on induced C*-algebras, Yinhua Cui, Gang Lu, Xiaohong Zhang, and Choongkil Park,.....	559

TABLE OF CONTENTS, JOURNAL OF COMPUTATIONAL ANALYSIS AND APPLICATIONS, VOL. 26, NO. 4, 2019

Some companions of quasi Grüss type inequalities for complex functions defined on unit circle, Jian Zhu and Qiaoling Xue,.....	581
A fixed point approach to the stability of quadratic (ρ_1, ρ_2) -functional inequalities, Sungsik Yun,.....	589
A comparison between Caputo and Canavati fractional derivatives, Ammar Khanfer,.....	597
On the Asymptotic Behavior Of Some Nonlinear Difference Equations, A. M. Alotaibi, M. S. M. Noorani, and M. A. El-Moneam,.....	604
On sequential fractional differential equations with nonlocal integral boundary conditions, N.I. Mahmudov and M. Awadalla,.....	628
Bieberbach-de Branges and Fekete-Szegö inequalities for certain families of q-convex and q-close-to-convex functions, Om P. Ahuja, Asena Çetinkaya, Yaşar Polatoğlu,.....	639
Bilinear θ -Type Calderón-Zygmund Operators on Non-homogeneous Generalized Morrey Spaces, Guanghui Lu and Shuangping Tao,.....	650
On Ulam-Hyers stability of decic functional equation in non-Archimedean spaces, Yali Ding, Tian-Zhou Xu, and John Michael Rassias,.....	671
Existence of positive solution for fully third-order boundary value problems, Yongxiang Li and Elyasa Ibrahim,.....	678
Alghamdi et al. Iteration Scheme for Hemicontractive Operators in Arbitrary Banach Spaces, Shin Min Kang, Arif Rafiq, Young Chel Kwun, and Faisal Ali,.....	697
Lyapunov-type inequalities for fractional differential equations under multi-point boundary conditions, Youyu Wang and Qichao Wang,.....	707
On a new generalized integral-type operator from mixed-norm spaces to Bloch-type spaces, Fang Zhang and Yongmin Liu,.....	717
Conformal automorphisms for exact locally conformally calibrated \tilde{G}_2 -structures, Mobeen Munir, Waqas Nazeer, Asma Ashraf, and Shin Min Kang,.....	728

**TABLE OF CONTENTS, JOURNAL OF COMPUTATIONAL
ANALYSIS AND APPLICATIONS, VOL. 26, NO. 4, 2019**

(continued)

Fourier series of finite products of Bernoulli and Euler functions, Taekyun Kim, Dae San Kim,
Dmitry V. Dolgy, and Jin-Woo Park,.....738

A note on Appell-type degenerate q -Bernoulli polynomials and numbers, Jongkyum Kwon and
Jin-Woo Park,.....756

TABLE OF CONTENTS, JOURNAL OF COMPUTATIONAL ANALYSIS AND APPLICATIONS, VOL. 26, NO. 5, 2019

Stability of a within-host Chikungunya virus dynamics model with Latency, Ahmed. M. Elaiw, Taofeek O. Alade, and Saud M. Alsulami,	777
Quotient B-algebras induced by an int-soft normal subalgebra, Jeong Soon Han and Sun Shin Ahn,.....	791
Fixed point theorems for rational type contractions in partially ordered S-metric spaces, Mi Zhou, Xiao-lan Liu, A.H. Arsari, B. Damjanović, and Yeol Je Cho,.....	803
On stochastic pantograph differential equations in the G-framework, Faiz Faizullah,.....	819
On dual partial metric topology and a fixed point theorem, Muhammad Nazam, Choonkil Park, Muhammad Arshad, and Sungsik Yun,.....	832
The approximation on analytic functions of infinite order represented by Laplace-Stieltjes transforms convergent in the half plane, Xia Shen and Hong Yan Xu,.....	841
q-analogue of modified degenerate Changhee polynomials and numbers, Jongkyum Kwon and Jin-Woo Park,.....	855
Quadratic ρ -functional inequalities in Banach spaces, Choonkil Park, Yuntak Hyun, and Jung Rye Lee,.....	863
On a subclass of p-valent analytic functions of complex order involving a linear operator, N. E. Cho and A. K. Sahoo,.....	875
A generalization of some results for Appell polynomials to Sheffer polynomials, Taekyun Kim, Dae San Kim, Gwan-Woo Jang, and Lee-Chae Jang,.....	889
New Two-step Viscosity Approximation Methods of Fixed Points for Set-valued Nonexpansive Mappings Associated with Contraction Mappings in CAT(0) Spaces, Ting-jian Xiong and Hengyou Lan,.....	899
Generalized Partial ToDD's Difference Equation in n-dimensional space, Tarek F. Ibrahim,	910
Meromorphic Solutions of Some Types of Systems of Complex Differential-Difference Equations, Wang Yue Zhao Xiuheng Liang Jianying Wang Guocheng,.....	927

**TABLE OF CONTENTS, JOURNAL OF COMPUTATIONAL
ANALYSIS AND APPLICATIONS, VOL. 26, NO. 5, 2019**

(continued)

A note on a certain kind of nonlinear difference Equations, Jie Zhang, Hai Yan Kang, and Liang Wen Liao,.....943

A fixed point approach to the stability of quadratic (ρ_1, ρ_2) -functional inequalities in matrix Banach spaces, Afshan Batool, Tayyab Kamran, Choonkil Park, and Dong Yun Shin,....952

TABLE OF CONTENTS, JOURNAL OF COMPUTATIONAL ANALYSIS AND APPLICATIONS, VOL. 26, NO. 6, 2019

Some identities involving generalized degenerate tangent polynomials arising from differential equations, C. S. Ryou,.....	975
Some New Inequalities of the Hermite-Hadamard Type for Extended s-Convex Functions, Jian Sun, Bo-Yan Xi, and Feng Qi,.....	985
On non-convex hybrid algorithm for a family of countable quasi-Lipschitz mappings in Hilbert spaces, Muhammad Saeed Ahmad, Shin Min Kang, Waqas Nazeer, and Samina Kausar,...	997
Some Results of The Class of Functions with Bounded Radius Rotation, Yaşar Polatoğlu, Yasemin Kahramaner, and Arzu Yemişçi Şen,.....	1006
Poly-Genocchi polynomials with umbral calculus viewpoint, Taekyun Kim, Dae San Kim, Gwan-Woo Jang, and Jongkyum Kwon,.....	1014
On a class of certain dynamic inequalities in three independent variables on time scales, Zareen. A. Khan,.....	1032
Divisibility of Generalized Catalan Numbers and Raney Numbers, Jacob Bobrowski, Tian-Xiao He, and Peter J.-S. Shiue,.....	1047
Coupled fixed point theorems for two maps in cone b-metric spaces over Banach algebras, Young-Oh Yang and Hong Joon Choi,.....	1059
Fourier series of sums of products of poly-Genocchi functions, Taekyun Kim, Dae San Kim, Dmitry V. Dolgy, and Jin-Woo Park,.....	1070
Hesitant fuzzy normal subalgebras in B-algebras, Jung Mi Ko and Sun Shin Ahn,.....	1084
Impulsive periodic solutions of second order differential equations with singularity, Shengjun Li and Yanhua Wang,.....	1095
On Gauss diagrams of Knots: A modern approach, Young Chel Kwun, Abdul Rauf Nizami, Waqas Nazeer, Mobeen Munir, and Shin Min Kang,.....	1104
The Jones polynomial of graph links via the Tutte polynomial, Young Chel Kwun, Abdul Rauf Nizami, Waqas Nazeer, and Shin Min Kang,.....	1114

**TABLE OF CONTENTS, JOURNAL OF COMPUTATIONAL
ANALYSIS AND APPLICATIONS, VOL. 26, NO. 6, 2019**

(continued)

Fourier series of sums of product of poly-Bernoulli and Euler functions and their applications,
Taekyun Kim, Dae San Kim, Gwan-Woo Jang, and Jongkyum Kwon,.....1127

Ellipticity of co-effective complex for locally conformally calibrated \tilde{G}_2 -manifolds, Mobeen
Munir, Waqas Nazeer, Shin Min Kang, Abdul Rauf Nizami, and Zakia Shahzadi,.....1146

TABLE OF CONTENTS, JOURNAL OF COMPUTATIONAL ANALYSIS AND APPLICATIONS, VOL. 26, NO. 7, 2019

Shift and invert weighted Golub-Kahan-Lanczos bidiagonalization algorithm for linear response eigenproblem, Hong-xiu Zhong, Guo-liang Chen, and Wan-qiang Shen,.....	1169
Qualitative Study of Solution of Some Higher Order Difference Equations, E. M. Elsayed, K. N. Alshabi, and Faris Alzahrani,.....	1179
On some classes of nonlinear contractions in Fuzzy metric spaces, Dangdang Wang, Chuanxi Zhu, and Zhaoqi Wu,.....	1192
On subclasses of analytic functions with fixed second coefficients, A. Y. Lashin and F.Z. El-Emam,.....	1200
On strong convergence theorem of hybrid algorithm for a countable family of quasi-Lipschitz mappings, Muhammad Saeed Ahmad, Waqas Nazeer, Mobeen Munir, Shin Min Kang, and Samina Kausar,.....	1208
Some common fixed point theorems in ω -orbitally complete modular metric spaces via C-class functions and application, Bahman Moeini, Arslan Hojat Ansari, and Choonkil Park,.....	1217
Trapezoidal interval type-2 hesitant fuzzy sets associated with new operations, N. O. Alshehri and H. A. Alshehri,.....	1229
Menger probabilistic normed Riesz spaces and stability of lattice preserving functional equation, Seyed Mohammad Sadegh Modarres Mosadegh, Ehsan Movahednia, Jung Rye Lee, and Choonkil Park,.....	1244
Fourier series of sums of products of poly-Genocchi and poly-Bernoulli functions, Taekyun Kim, Dae San Kim, Dmitry V. Dolgy, and Jongkyum Kwon,.....	1258
Additive-quadratic ρ -functional equations in β -homogeneous F-spaces, Sungsik Yun,....	1276
Differential subordination for analytic functions associated with leaf-like domains, S. Sivasubramanian, M. Govindaraj, G. Murugusundaramoorthy, and N. E. Cho,.....	1286
On iterative approach to common fixed points of nonexpansive mappings in Hilbert spaces, Muhammad Saeed Ahmad, Waqas Nazeer, Shin Min Kang, Syeed Fakhar Abbas Naqvi,	1302
Best proximity points involving F-contraction on a closed ball, Aftab Hussain and Choonkil Park,.....	1309

**TABLE OF CONTENTS, JOURNAL OF COMPUTATIONAL
ANALYSIS AND APPLICATIONS, VOL. 26, NO. 7, 2019**

(continued)

Asymptotic lines of a discrete Lotka-Volterra competition model, Young-Hee Kim and Sang-Mok Choo,.....1316

TABLE OF CONTENTS, JOURNAL OF COMPUTATIONAL ANALYSIS AND APPLICATIONS, VOL. 26, NO. 8, 2019

Existence and global attractiveness of pseudo almost periodic solutions to impulsive partial stochastic neutral functional differential equations, Zuomao Yan and Fangxia Lu,...	1343
Fourier series of functions associated with poly-Genocchi polynomials, Taekyun Kim, Dae San Kim, Dmitry V. Dolgy, and Jin-Woo Park,.....	1387
Tracy-Singh Products and Classes of Operators, Arnon Ploymukda, Patrawut Chansangiam, Wicharn Lewkeeratiyutkul,.....	1401
On unicity theorems of difference of entire or meromorphic functions, Yong Liu,....	1414
On the existence and behavior of the solutions for some difference equations systems, M. M. El-Dessoky and Aatef Hobiny,.....	1428
Applications of soft sets to BCC-ideals in BCC-algebras, Sun Shin Ahn,.....	1440
Fixed point theorems for various contraction conditions in digital metric spaces, Choonkil Park, Ozgur Ege, Sanjay Kumar, Deepak Jain, and Jung Rye Lee,.....	1451
Fixed points of Ćirić type ordered F-contractions on partial metric spaces, Muhammad Nazam, Muhammad Arshad, Choonkil Park, and Sungsik Yun,.....	1459
The Theoretical Analysis of l_1 -TV Compressive Sensing Model for MRI Image Reconstruction, Xiaoman Liu,.....	1471
On Fibonacci Z-sequences and their logarithm functions, Hee Sik Kim, J. Neggers, and Keum Sook So,.....	1479
Hermite-Hadamard type fractional integral inequalities for $MT_{(r,g,m,\varphi)}$ -preinvex functions, Muhammad Adil Khan, Yu-Ming Chu, Artion Kashuri, and Rozana Liko,.....	1487
Umbral calculus approach to degenerate poly-Genocchi polynomials, Taekyun Kim, Dae San Kim, Lee Chae Jang, and Gwan-Woo Jang,.....	1504
Quadratic (ρ_1, ρ_2) -functional inequality in fuzzy normed spaces, Younghun Jo, Junha Park, Taekseung Kim, Jaemin Kim, and Choonkil Park,.....	1521

TABLE OF CONTENTS, JOURNAL OF COMPUTATIONAL ANALYSIS AND APPLICATIONS, VOL. 27, NO. 1, 2019

On common fixed point theorems of weakly compatible mappings in fuzzy metric spaces, Afshan Batool, Tayyab Kamran, Dong Yun Shin, and Choonkil Park,.....	11
Analysis of latent CHIKV dynamics model with time delays, Ahmed. M. Elaiw, Taofeek O. Alade, and Saud M. Alsulami,.....	19
Dynamical behavior of MERS-CoV model with discrete delays, H. Batarfi, A. Elaiw, and A. Alshareef,.....	37
Convexity and hyperconvexity in fuzzy metric space, Ebru Yiğit and Hakan Efe,.....	50
On generalizations of a reverse Hardy-Hilbert's type inequality, Zhengping Zhang and Gaowen Xi,.....	59
Dunkl generalization of q-Szász-Mirakjan-Kantrovich type operators and approximation, Abdullah Alotaibi and M. Mursaleen,.....	66
Pointwise error estimates for spherical hybrid interpolation, Chunmei Ding, Ming Li, and Feilong Cao,.....	77
Investigating dynamics of the rational difference equation $x_{n+1} = \frac{x_{n-1}}{A+Bx_nx_{n-1}}$, Malek Ghazel, Taher S. Hassan, and Ahmed M. Mosallem,.....	85
L_p approximation errors for hybrid interpolation on the unit sphere, Chunmei Ding, Ming Li, and Feilong Cao,.....	104
Some best approximation formulas and inequalities for the Bateman's G-function, Ahmed Hegazi, Mansour Mahmoud, Ahmed Talat, and Hesham Moustafa,.....	118
A new q-extension of Euler polynomial of the second kind and some related polynomials, R. P. Agarwal, J. Y. Kang, and C. S. Ryou,.....	136
Regularized moving least squares approximation with Laplace-Beltrami operator on the sphere, Chunmei Ding, Yongli Zhang, and Feilong Cao,.....	149
Chaos Control and Function Projective Synchronization of Noval Chaotic Dynamical System, M. M. El-Dessoky, E. O. Alzahrani, and N.A. Almohammadi,.....	162

**TABLE OF CONTENTS, JOURNAL OF COMPUTATIONAL
ANALYSIS AND APPLICATIONS, VOL. 27, NO. 1, 2019**

(continued)

Umbral calculus approach to r-Stirling numbers of the second kind and r-Bell polynomials,
Taekyun Kim, Dae San Kim, Hyuck-In Kwon, and Jongkyum Kwon,.....173

TABLE OF CONTENTS, JOURNAL OF COMPUTATIONAL ANALYSIS AND APPLICATIONS, VOL. 27, NO. 2, 2019

An iterative algorithm of poles assignment for LDP systems, Lingling Lv, Zhe Zhang, Lei Zhang, and Xianxing Liu,.....	201
C^* -algebra-valued modular metric spaces and related fixed point results, Bahman Moeini, Arslan Hojat Ansari, Choonkil Park, and Dong Yun Shin,.....	211
Strong Convergence Theorems and Applications of a New Viscosity Rule for Nonexpansive Mappings, Waqas Nazeer, Mobeen Munir, Sayed Fakhar Abbas Naqvi, Chahn Yong Jung, and Shin Min Kang,.....	221
Generalized stability of cubic functional equations with an automorphism on a quasi- β normed space, Dongseung Kang and Hoewoon B. Kim,.....	235
Two quotient BI-algebras induced by fuzzy normal subalgebras and fuzzy congruence relations, Yinhua Cui and Sun Shin Ahn,.....	247
General quadratic functional equations in quasi- β -normed spaces: solution, superstability and stability, Shahrokh Farhadabadi, Choonkil Park, and Sungsik Yun,.....	256
On Impulsive Sequential Fractional Differential Equations, N. I. Mahmudov and B. Sami,	269
The Differentiability and Gradient for Fuzzy Mappings Based on the Generalized Difference of Fuzzy Numbers, Shexiang Hai and Fangdi Kong,.....	284
Global Attractivity and Periodic Nature of a Higher order Difference Equation, M. M. El-Dessoky, Abdul Khaliq, Asim Asiri, and Ansar Abbas,.....	294
Asymptotic Representations for Fourier Approximation of Functions on the Unit Square, Zhihua Zhang,.....	305
Khatri-Rao Products and Selection Operators, Arnon Ploymukda, Patrawut Chansangiam,	316
Some new coupled fixed point theorems in partially ordered complete Menger probabilistic G-metric spaces, Gang Wang, Chuanxi Zhu, and Zhaoqi Wu,.....	326
Fourier series of sums of products of higher-order Euler functions, Taekyun Kim, Dae San Kim, Gwan-Woo Jang, and Jongkyum Kwon,.....	345
Some symmetric identities for (p, q) -Euler zeta function, Cheon Seoung Ryoo,.....	361

**TABLE OF CONTENTS, JOURNAL OF COMPUTATIONAL
ANALYSIS AND APPLICATIONS, VOL. 27, NO. 2, 2019**

(continued)

Additive (ρ_1, ρ_2) -functional inequalities in complex Banach spaces, Choonkil Park, Dong Yun Shin, and George A. Anastassiou,.....367

TABLE OF CONTENTS, JOURNAL OF COMPUTATIONAL ANALYSIS AND APPLICATIONS, VOL. 27, NO. 3, 2019

Modified Halpern's iteration without assumptions on fixed point set in metric space, Kanyarat Cheawchan and Atid Kangtunyakarn,.....	393
Convergence of double acting iterative scheme for a family of generalized φ -weak contraction mappings in CAT(0) spaces, Kyung Soo Kim,.....	404
On solution of a system of differential equations via fixed point theorem, Muhammad Nazam, Muhammad Arshad, Choonkil Park, Ozlem Acar, Sungsik Yun, and George A. Anastassiou,.....	417
Some equalities and inequalities for K-g-frames, Zhong-Qi Xiang and Yin-Suo Jia,.....	427
AQ-functional equation in matrix non-Archimedean fuzzy normed spaces, Jung-Rye Lee, George A. Anastassiou, Choonkil Park, Murali Ramdoss, and Vithya Veeramani,.....	438
Existence of continuous selection for some special kind of multivalued mappings, G. Poonguzali, Muthiah Marudai, George A. Anastassiou, and Choonkil Park,.....	447
Refined stability of set-valued functional equations, Hong-Mei Liang, Hark-Mahn Kim, and Hwan-Yong Shin,.....	453
Approximate Cauchy-Jensen and bi-quadratic mappings in 2-Banach spaces, Won-Gil Park and Jae-Hyeong Bae,.....	463
Birkhoff Normal Forms, KAM theory and continua of periodic points for certain planar system, M. R. S. Kulenović, E. Pilav, and N. Mujić,.....	470
Durrmeyer type (p, q)-Baskakov operators for functions of one and two variables, Qing-Bo Cai and Guorong Zhou,.....	481
A subclass of analytic functions defined by a fractional integral operator, Alb Lupaş Alina,.....	502
Properties on a subclass of analytic functions defined by a fractional integral operator, Alb Lupaş Alina,.....	506
Normal criteria of meromorphic functions concerning holomorphic functions, Da-Wei Meng, San-Yang Liu, and Hong-Yan Xu,.....	511

**TABLE OF CONTENTS, JOURNAL OF COMPUTATIONAL
ANALYSIS AND APPLICATIONS, VOL. 27, NO. 3, 2019**

(continued)

Mixed Weakly Monotone Mappings and its Application to System of Integral Equations via
Fixed Point Theorems, Deepak Singh, Om Prakash Chauhan, Afrah A N Abdou, and Garima
Singh,.....527

Functional inequalities in fuzzy normed spaces and its stability, Giljun Han, Chang Il Kim,544

TABLE OF CONTENTS, JOURNAL OF COMPUTATIONAL ANALYSIS AND APPLICATIONS, VOL. 27, NO. 4, 2019

Some Fixed Point Results of Caristi Type in G-Metric Spaces, Hamed M. Obiedat and Ameer A. Jaber,.....	569
Meir-Keeler contraction mappings in M_b -metric Spaces, N. Mlaiki, N. Souayah, K. Abodayeh, and T. Abdeljawad,.....	580
Generalized Ulam-Hyers Stability for Generalized types of $(\gamma - \psi)$ -Meir-Keeler Mappings via Fixed Point Theory in S-metric spaces, Mi Zhou, Xiao-lan Liu, Arslan Hojat Ansari, Yeol Je Cho, Stojan Radenović,.....	593
New oscillation criteria for second-order nonlinear delay dynamic equations with nonpositive neutral coefficients on time scales, Ming Zhang, Wei Chen, M.M.A. El-Sheikh, R.A. Sallam, A.M. Hassan, and Tongxing Li,.....	629
A Consistency Reaching Approach for Probability-interval Valued Hesitant Fuzzy Preference Relations, Jiuping Xu, Kang Xu, and Zhibin Wu,.....	636
Dynamics and Solutions of Some Recursive Sequences of Higher Order, Asim Asiri and E. M. Elsayed,.....	656
Extremal solutions for a coupled system of nonlinear fractional differential equations with p-Laplacian operator, Ying He,.....	671
The Growth and Zeros of Linear Differential Equations with Entire Coefficients of $[p, q] - \varphi(r)$ Order, Sheng Gui Liu, Jin Tu, and Hong Zhang,.....	681
Some k-fractional integrals inequalities through generalized $\lambda_{\phi m}$ -MT-preinvexity, Chunyan Luo, Tingsong Du, Muhammad Adil Khan, Artion Kashuri, and Yanjun Shen,.....	690
Some generalizations of operator inequalities for positive linear map, Chaojun Yang and Fangyan Lu,.....	706
Locally and globally small Riemann sums and Henstock integral of fuzzy-number-valued functions in E^n , Muawya Elsheikh Hamid and Luoshan Xu,.....	714
On systems of fractional Langevin equations of Riemann-Liouville type with generalized nonlocal fractional integral boundary conditions, Chatthai Thaiprayoon, Sotiris K. Ntouyas, and Jessada Tariboon,.....	723

**TABLE OF CONTENTS, JOURNAL OF COMPUTATIONAL
ANALYSIS AND APPLICATIONS, VOL. 27, NO. 4, 2019**

(continued)

Subordination results for certain class of analytic functions associated with Mittag-Leffler function, Mansour F. Yassen,.....738

TABLE OF CONTENTS, JOURNAL OF COMPUTATIONAL ANALYSIS AND APPLICATIONS, VOL. 27, NO. 5, 2019

Fixed point theorems for F-contractions on closed ball in partial metric spaces, Muhammad Nazam, Choonkil Park, Aftab Hussain, Muhammad Arshad, and Jung-Rye Lee,.....	759
Lacunary sequence spaces defined by Euler transform and Orlicz functions, Abdullah Alotaibi, Kuldip Raj, Ali H. Alkhalidi, and S. A. Mohiuddine,.....	770
Oscillation analysis for higher order difference equation with non-monotone arguments, Özkan Öcalan and Umut Mutlu Özkan,.....	781
On Orthonormal Wavelet Bases, Richard A. Zalik,.....	790
Neutrosophic sets applied to mighty filters in BE-algebras, Jung Mi Ko and Sun Shin Ahn,	798
Coupled fixed point of firmly nonexpansive mappings by Mann’s iterative processes in Hilbert spaces, Tamer Nabil,.....	807
Dynamics of the zeros of analytic continued the second kind q-Euler polynomial, Cheon Seoung Ryoo,.....	822
Remarks on the blow-up for damped Klein-Gordon equations with a gradient nonlinearity, Hongwei Zhang, Jian Dang, and Qingying Hu,.....	831
The γ -fuzzy topological semigroups and γ -fuzzy topological ideals, Cheng-Fu Yang,.....	838
The Behavior and Closed Form of the Solutions of Some Difference Equations, E. M. Elsayed and Hanan S. Gafel,.....	849
Convexity and Monotonicity of Certain Maps Involving Hadamard Products and Bochner Integrals for Continuous Fields of Operators, Patrawut Chansangiam,.....	864
Fibonacci periodicity and Fibonacci frequency, Hee Sik Kim, J. Neggers, and Keum Sook So,.....	874
The weighted moving averages for a series of fuzzy numbers based on non-additive measures with $\sigma - \lambda$ rules, Zeng-Tai Gong and Wen-Jing Lei,.....	882
A Periodic Observer Based Stabilization Synthesis Approach for LDP Systems based on iteration, Lingling Lv, Wei He, Zhe Zhang, Lei Zhang, and Xianxing Liu,.....	892

**TABLE OF CONTENTS, JOURNAL OF COMPUTATIONAL
ANALYSIS AND APPLICATIONS, VOL. 27, NO. 5, 2019**

(continued)

Subordination and superordination properties for certain family of integral operators associated with multivalent functions, M. K. Aouf, H. M. Zayed, and N. E. Cho,.....904

Additive s-functional inequalities and derivations on Banach algebras, Taekseung Kim, Younghun Jo, Junha Park, Jaemin Kim, Choonkil Park, and Jung Rye Lee,.....917

On modulus of convexity of quasi-Banach spaces, Shin Min Kang, Hussain Minhaj Uddin Ahmad Qadri, Waqas Nazeer, and Absar Ul Haq,.....925

TABLE OF CONTENTS, JOURNAL OF COMPUTATIONAL ANALYSIS AND APPLICATIONS, VOL. 27, NO. 6, 2019

Asymptotic behavior of equilibrium point for a system of fourth-order rational difference equations, Ping Liu, Changyou Wang, Yonghong Li, and Rui Li,.....	947
A version of the Hadamard inequality for Caputo fractional derivatives and related results, Shin Min Kang, Ghulam Farid, Waqas Nazeer, and Saira Naqvi,.....	962
A hesitant fuzzy ordered information system, Haidong Zhang and Yanping He,.....	973
The stability of cubic functional equations with involution in modular spaces, Changil Kim and Giljun Han,.....	988
A nonstandard finite difference method applied to a mathematical cholera model with spatial diffusion, Shu Liao and Weiming Yang,.....	1000
On the Higher Order Difference Equation $x_{n+1} = \alpha x_n + \beta x_{n-l} + \gamma x_{n-k} + \frac{\alpha x_n x_{n-k}}{b x_n + c x_{n-l} + d x_{n-k}}$, M. M. El-Dessoky and K. S. Al-Basyouni,.....	1013
Best proximity point of contraction type mapping in metric space, Kyung Soo Kim,.....	1023
Explicit viscosity rule of nonexpansive mappings in CAT(0) spaces, Shin Min Kang, Absar Ul Haq, Waqas Nazeer, Iftikhar Ahmad, and Maqbool Ahmad,.....	1034
The generalized viscosity implicit rules of asymptotically nonexpansive mappings in CAT(0) spaces, Shin Min Kang, Absar Ul Haq, Waqas Nazeer, and Iftikhar Ahmad,.....	1044
On some sixth-order rational recursive sequences, M. Folly-Gbetoula and D. Nyirenda,.....	1057

TABLE OF CONTENTS, JOURNAL OF COMPUTATIONAL ANALYSIS AND APPLICATIONS, VOL. 27, NO. 7, 2019

Common fixed point theorems in G_b -metric space, Youqing Shen, Chuanxi Zhu, and Zhaoqi Wu,.....	1083
A modified collocation method for weakly singular Fredholm integral equations of second kind, Guang Zeng, Chaomin Chen, Li Lei, and Xi Xu,.....	1091
Sharp coefficient estimates for non-Bazilevič functions, Ji Hyang Park, Virendra Kumar, and Nak Eun Cho,.....	1103
A new extragradient method for the split feasibility and fixed point problems, Ming Zhao and Yunfei Du,.....	1114
Behavior of Meromorphic Solutions of Composite Functional-Difference Equations, Man-Li Liu and Ling-Yun Gao,.....	1124
Locally and globally small Riemann sums and Henstock-Stieltjes integral for n-dimensional fuzzy-number-valued functions, Muawya Elsheikh Hamid,.....	1142
Solving Systems of Nonhomogeneous Coupled Linear Matrix Differential Equations in Terms of Mittag-Leffler Matrix Functions, Rungpailin Kongyaksee and Patrawut Chansangiam,...	1150
Expressions of the solutions of some systems of difference equations, M. M. El-Dessoky, E. M. Elsayed, E. M. Elabbasy, and Asim Asiri,.....	1161
Hardy type inequalities for Choquet integrals, George A. Anastassiou,.....	1173