

International Journal of Mathematics and Computer Science

Author Index Vol. 18, 2023

Ola A. Neamah, Shatha A. Salman , The relationship between chromatic polynomial and Tutte polynomial for rooted graphs and tree.....	1
Timothy Eller, Peter Johnson, William Jones, Jakub Kraus , Distance graphs on normed function spaces.....	11
Shaymaa Maki Kadham, Ameera N. Alkiffai , Model Tumor Response to Cancer Treatment Using Fuzzy Partial SH-Transform An Analytic Study.....	23
Ali Abd Alhussein Zyarah, Ahmed Hadi Hussain , Semiprime Hollow R-module.....	29
Rizky Rosjanuardi, Sumanang Muhtar Gozali, Imam Nugraha Albania , c-Convex Subgroups of Finite Dimensional Cyclically Ordered Free Abelian Group.....	37
Khalid Alshammari, Maslina Darus , Hankel Determinant for a Class of Analytic Functions Involving the Q-Ruscheweyh Derivative and the Symmetric Differential Operator.....	47
Nongluk Viriyapong, Chawalit Boonpok , Almost (Λ, sp) -continuity and $p(\Lambda, sp)$ -open sets.....	55
Jeeranunt Khampakdee, Chawalit Boonpok , Almost contra- (Λ, sp) -continuity and $s(\Lambda, sp)$ -closed sets.....	61
A. V. Ramakrishna, T. V. N. Prasanna , A Note On New Near Algebraic Structures.....	67
Napassanan Srisarakham, Chawalit Boonpok , Properties of locally (Λ, p) -closed sets.....	73
Chokchai Viriyapong, Chawalit Boonpok , On generalized (Λ, p) -closed sets	79
Saja Abdulameer Kahdim, Areej M. Abduldaim , Principal Component Analysis for Zero Watermarking Technique.....	85
Montri Thongmoon, Chawalit Boonpok , Characterizations of $(\Lambda, sp) - R_i$ -topological spaces.....	99
Prapart Pue-on, Chawalit Boonpok , Weak (Λ, sp) -continuity and $\theta(\Lambda, sp) - R_i$ -closed sets.....	105
Ahmed Hassan Hassan , The Effectiveness of Security Factors on Using Technology Acceptance Model in Jordan.....	111
Jairo E Castillo H, Jamel Castillo Mejia, Alvaro H. Salas , A Nonlinear Transmission Model with Analytical Soliton Solution.....	119
Apirat Siraworakun, Suton Tadee , Solutions of the Diophantine Equation $p^x + q^y = z^2$, where $p, q \equiv 3 \pmod{4}$	131
Kulprapa Srimud, Suton Tadee , On the Diophantine Equation $3^x + b^y = z^2$...	137
Wachirarak Orosram, Wipawee Tangjai , On the Diophantine equation $(pq)^x + (pq)^{2s} n^y = z^2$, where p and q are prime numbers.....	143
Suton Tadee, Napalai Laomala , On the Diophantine equation $(p+2)^x - p^y = z^2$, where p is prime and $p \equiv 5 \pmod{24}$	149
Auday Hekmat Mahmood, Maysaa Zaki Salman , A Note on Relatively Commuting Mappings of prime and Semiprime Rings.....	153

Yoksal A. Laylani, Basim A. Hassan, Hisham M. Khudhur, Enhanced spectral conjugate gradient methods for unconstrained optimization.....	163
Suton Tadee, Sudaporn Poopra, On the Diophantine Equation $\frac{1}{x} + \frac{1}{y} + \frac{1}{z} = \frac{1}{n}$..	173
Bashir Abdulali, Mohd Aftar Abu Bakar, Kamarulzaman Ibrahim, Noratiqah Mohd Ariff, The Weighted Maximum Product of Spacings for Extreme Value Distributions.....	179
Hassan Rashed Yassein, Huda Abdulateef Ali, HUDTRU: An Enhanced NTRU for Data Security via Quintuple Algebra.....	199
Umarin Pintoptang, Suton Tadee, The Complete Set of Non-negative Integer Solutions for the Diophantine Equation $(pq)^{2x} + p^y = z^2$, where p, q, x, y, z are non-negative integers with p prime and p does not divide q	205
Rachid Matoui, Karim Driss, An analytical approach to the Boussairi and Chergui conjecture.....	211
Hatem Kareem Sulaiman, H. A. Wasi, Mohammed Abdul Daim Zoba, Ola Ali Obead, Ahmed Hadi Hussain, A model for allocation and optimization of reliability complex network using Particle Swarm Optimization and Genetic Algorithms.....	225
Muhammad Abdurrahman Rois, Fatmawati, Cicik Alfiniyah, Mathematical modeling of COVID-19 with partial comorbid subpopulations and two isolation treatments in Indonesia.....	233
Chokchai Viriyapong, Chawalit Boonpok, Characterizations of $(\Lambda, p) - T_{\frac{1}{2}}$ -spaces.....	243
Jeeranunt Khampakdee, Chawalit Boonpok, Properties of (Λ, p) -normal Spaces.....	249
Napassanan Srisarakham, Chawalit Boonpok, Almost (Λ, p) -continuous functions.....	255
Kan Thotakul, Anirut Luadsong, Nitima Aschariyaphotha, Meshless Method for solving the Conformable Fractional Maxwell Equations.....	261
Nipaporn Chutiman, Chawalit Boonpok, Characterizations of (Λ, p) -hyperconnected spaces.....	283
Nongluk Viriyapong, Chawalit Boonpok, On (Λ, p) -extremally disconnected spaces.....	289
Prapart Pue-on, Chawalit Boonpok, Some properties of (Λ, p) -regular spaces..	295
Eman Almuhur, Areej Ali Albalawi, Walrasian Auctioneer: An Application of Brouwer's Fixed Point Theorem.....	301
Awatif Rezzoky Al-Dubaicy, Some Bayesian estimators of the reliability inverse Weibull distribution using Doubly Type II Censored data.....	313
WonTae Hwang, Kyunghwan Song, The Frobenius problems for Sexy Prime Triplets.....	321
Audrey Becker, Friends of Two Times a Prime Number.....	335
Nahlia Rakhmawati, Agus Widodo, Noor Hidayat, Abdul Rouf Alghofari, Optimal Path on a Multigraph Network Involving Edge Weights of Multiple Parameters.....	343
Nisara Suthisung, Kanikar Muangchoo, Pennapa Suwanbamrung, Wareewan Wisedsing, Chanwit Prabpayak, Anantachai Padcharoen, Geraghty type generalized F-contraction for dislocated quasi-metric spaces.....	359

Apisit Pakapongpun, Bunthita Chattae , Co-cobalancing numbers and Balancing numbers.....	369
Hassan Rashed Yassein, Huda Abdulateef Ali , SQNTRU: New Public Key Encryption.....	381
Monchaya Chiangpradit, Chawalit Boonpok , Properties of (Λ, p) -submaximal spaces.....	387
Butsakorn Kong-ied, Chawalit Boonpok , Characterizations of (Λ, p) -extremally disconnected spaces.....	393
Rasha Khudhur Abbas, Jehad Ramadan Kider , The a -fuzzy normed algebra and its basic properties.....	399
Rizky Rosjanuardi , Ideal Structure of Kumjian-Pask Algebras.....	409
Saithip Limtrakul, Jeerayut Wetweerapong , Artificial neural network optimization using differential evolution algorithm with adaptive weight bound adjustment for pattern classification.....	415
Maha Ammar Mustafa, Lemya Abd Alameer Hadi, Asma Abdulelah Abdulrahman , New algorithm based on deep learning for number recognition.....	429
Ruqaya Shaker Mahmood, Iden Hasan Hussein, Manal Naji Al-Harere , Estimation of the fuzzy parameters for Exponential-Rayleigh Distribution by using a nonlinear Ranking function.....	439
Nurul Amiera Sakinah Abdul Jamal, Muhammad Rezal Kamel Ariffin, Kamilah Abdullah , Novel Forgery Mechanisms in Multivariate Signature Schemes.....	451
Dlal Bashir, Hailiza Kamarulhaili, Olayiwola Babarinsa , Some New Results on Hourglass Matrices.....	463
Jose Maria L. Escaner IV, Jemar E. Laag, Daryl Allen B. Saddi , Matrix Representation of Martingale Measures with Quantized Marginals.....	475
William S. Gayo, Jr., Jerico B. Bacani , On the Solutions of Some Mersenne Prime-Involved Diophantine Equations.....	487
Mamika Ujianita Romdhini, Athirah Nawawi , Degree Subtraction Energy of Commuting and Non-Commuting Graphs for Dihedral Groups.....	497
Mark Anthony C. Tolentino, Gerone Russel J. Eugenio , The set chromatic numbers of the middle graph of tree families.....	509
Nongluk Viriyapong, Chokchai Viriyapong , On the Diophantine equation $255^x + 323^y = z^2$	521
Chokchai Viriyapong, Nongluk Viriyapong , On the Diophantine equation $a^x + (a+2)^y = z^2$, where $a \equiv_{21} 5$	525
Sudarat Nidsunkid, Peang-or Yeesa , The Performance of Multivariate Exponentially Weighted Moving Average Control Chart Based on Regression Adjustment when the Multivariate Normality Assumption is Violated.....	529
Amir Baklouti, Sabeur Mansour , Unified products and matched pairs analysis of dual mock-Lie algebras.....	539
Pronsuda Kongkam, Kanint Teerapaolarn , A non-uniform bound on Poisson approximation for a sum of independent non-negative integer-valued random variables.....	557
Maysoon M. Aziz , Engineering Mathematics for radiative heat transfer in the magnetohydrodynamic.....	563
Edwin Zarrazola, Raul Alejandro Moran-Vasquez, Daya K. Nagar , Percentage Points For Testing Two-Sample Compound Symmetry.....	571
Luay A. Alswidi, Hayder Kadhim Zghair, Dheargham Ali Abdulsada , Irresolvability Ideal Module.....	581

Hiba Shakir Salman, Hassan Rashed Yassein, TRUFT: A New Public Key Cryptosystem Based on Novel FTH Algebra.....	589
Supawadee Prugsapitak, The Egyptian fraction of the form $\frac{1}{a} + \frac{1}{b} = \frac{q-1}{pq}$	595
Ruma Kareem K. Ajeena, Integer matrix size 2x2 sub-decomposition method for elliptic curve cryptography.....	599
Josephine B. Nalzaro, Rosario G. Artes Jr., Generalized Continuous Functions in Bigeneralized Topological Spaces.....	607
EL Hadji Sow, Algebraic Points of Degree at most 4 on the Affine Curve $y^2 + y = x^5$	613
Daya K. Nagar, Alejandro Roldan-Correa, Sergio A. Gomez-Noguera, Integrals Associated with Complex Multivariate Beta Function.....	619
Juan Carlos Lopez Carreno, Rosalba Mendoza Suarez, Jairo Alonso Mendoza S., Connection between the Hermite and Gegenbauer polynomials using the Lewanowicz method.....	627
Areej Almuhaimeed, m-Polar Fuzzy BRK-ideals and BRK-algebras.....	637
Falah Hassan Sarhan, Hassan Khaleel Ismail, Approximation Solutions of Backward Fuzzy Stochastic Differential Equations.....	647
Amelia L. Arriesgado, Jeffrey Imer C. Salim, Rosario G. Artes Jr., Clique Connected Common Neighborhood Polynomial of the Join of Graphs.....	655
Fozaiyah Ayed Alhubairah, Nor Muhainiah Mohd Ali, Ahmad Erfanian, Cyclic Intersection Graph of Subgroups of Dihedral Groups and its Properties.....	661
Anwar Khaleel Faraj, Lemya Abd Alameer Hadi, Areej M. Abduldaim, Shatha A. Salman, Symmetric Generalized Bi-Derivations with Prime Ideals.....	675
Israa Hadi Hasan, Iden Hassan Al-kanani, New Ranking Function Technique for Fully Fuzzy Linear Programming Problems Utilizing Generalized Decagonal Membership Function.....	685
Zouhaier Harrath, Ahmed Bouajila, Adel Fridhi, Artificial Reality and Science Learning.....	697
Khalid Alshammari, Maslina Darus, Applications of Q-Ruscheweyh Symmetric Differential Operator in a Class of Starlike.....	707
Kanint Teerapaolarn, Poisson approximation for a sum of beta geometric random variables.....	719
Ivy Corazon A. Mangaya-ay, Probability Sampling-Key to Reliable Cross-sectional Survey Results: An Election Poll Case.....	723
Areerak Chaiworn, The Square Root of Nonsingular Matrices with Non-negative Eigenvalues.....	731
Suton Tadee, Nuanchuen Thaneepoon, On the Diophantine equation $6^x + p^y = z^2$, where p is prime.....	737
Napassanan Srisarakham, Chawalit Boonpok, On characterizations of $\delta p(\Lambda, s) - D_1$ spaces.....	743
Prapart Pue-on, Chawalit Boonpok, On $\delta s(\Lambda, s)$-open sets in topological spaces.....	749
Jeeranunt Khampakdee, Chawalit Boonpok, On $\delta p(\Lambda, s)$-symmetric spaces....	755
Montri Thongmoon, Chawalit Boonpok, Sober $\delta p(\Lambda, s)$ - R_0 spaces.....	761

Aldison M. Asdain, Jeffrey Imer C. Salim, Rosalio G. Artes Jr., Geodetic Bounds in Graphs.....	767
Lv Wan Gang, Zhou Xue Jun, Rahmat Hidayat, Brain Game Design For Elderly.....	773
Warunya Hongwiengjan, Poom Kumam, Dawud Thongtha, Option Pricing with Fuzzy-TGARCH Volatility Clustering.....	781