CURRICULUM VITAE

Professor IQBAL H. JEBRIL

Mathematics Department, Faculty of Science and Information Technology, Al-Zaytoonah University of Jordan, P.O. Box 130 Amman 11733 Jordan

Phone: 0780805011

Fax: Number/s

E-mail: i.jebril@zuj.edu.jo
iqbal501@hotmail.com

Homepage:

https://www.scopus.com/authid/detail.uri?authorId=26422256400
https://scholar.google.com/citations?user=r-yW8OwAAAAJ&hl
https://www.researchgate.net/profile/Iqbal_Jebril
http://orcid.org/0000-0003-4348-6197
Scopus Author ID: 26422256400

- **Editor-in-Chief:** International Journal of Advances in Soft Computing and Its Applications (IJASCA) http://ijasca.zuj.edu.jo (SCOUPS)
- **Chair Track (Mathematical Modeling and Analysis):** The International Conference on Information Technology (ICIT 2023, ICIT2025) | Amman, Jordan. (IEEE & SCOUPS).
- **Guest editor: International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems (World Scientific Publishing), special Issues on "Fuzzy optimization and algorithms in autonomous systems" Impact factor (1.518) in the year 2020.**
- **Guest editor: Journal of Intelligent Systems (De Gruyter), special Issues on "HYBRID FUZZY SYSTEMS FOR MOBILE ROBOTS AND THEIR APPLICATIONS" (Emerging Sources Citation Index) and (Scopus Index).**
- **Guest editor: Soft Computing (Springer) special Issues on "Evolution of predictive modelling and AI for modern Healthcare computing", Impact factor 3.643 (2020).**
- **Guest editor: Journal Automatika (Taylor & Francis) special Issues on "Cognitive Computing in Intelligent Autonomous Systems" , Impact factor (1.156) in the year 2020.**
- **Guest editor:** *Computational Intelligence* ***(Wiley)*** Hybrid Control of Autonomous Mobile Robots: Architectures, Algorithms and Applications **Impact factor:2.330.**
- **Chief Organizer:** International Center for Scientific Research and Studies (ICSRS) http://www.icsrs.uk
- **Editor-in-Chief:** International Journal of Open Problems in Computer Sciences and Mathematics http://www.ijopcm.org (EBSCO)
- **Editor-in-Chief:** International Journal of open Problems in Complex Analysis (IJOPCA) http://www.i-csrs.org/ijopca/index.htm

1. Personal Data

Date of Birth: October 6 / 1978.
Nationality: Jordanian

2. Education

- Ph.D. (Mathematical Analysis) 2005, Universiti Kebangsaan Malaysia, National University of Malaysia, Malaysia.

- M.c. (Mathematical Analysis) 2000, Al al-Bayt University, Jordan, Jordan.

3. Ph.D. Dissertation

Continuous and Bounded Linear Operators in Probabilistic Normed Space, Universiti Kebangsaan Malaysia, National University of Malaysia, Malaysia

4. Employment

Academic Positions

- Professor, Al-Zaytoonah University of Jordan, Amman, Jordan
  February 15, 2019 – now.
- Professor, Taibah University, Al Madinah Al Munawwarah, Saudi Arabia
  February 5, 2018 – February 15, 2019.
- Associate Professor, Taibah University, Al Madinah Al Munawwarah, Saudi Arabia
  April 9, 2013– February 5, 2018.
- Assistant Professor, Taibah University, Al Madinah Al Munawwarah, Saudi Arabia
  September 5, 2011– April 9, 2013.
- Assistant Professor, King Faisal University, Saudi Arabia
  September 6, 2008– September 5, 2011.
- Assistant Professor, Irbid National University, Jordan
  September 5, 2007– September 5, 2008.
- Assistant Professor, Zarqa Private University, Jordan
  September 17, 2006– September 5, 2007.
- Assistant Professor, Al Baha Al Ahliyya College of Science, Saudi Arabia
  September 1, 2005– September 15, 2006.
- Instructor, National University of Malaysia, Malaysia
  September 1, 2003– September 10, 2005.
- Instructor, Jordanian Ministry of Education, Mafraq, Jordan
  September 1, 1999– September 10, 2002.

Administrative Positions

- **Editor-in-Chief,** International Journal of Advances in Soft Computing and Its Applications (IJASCA) http://ijasca.zuj.edu.jo (SCOUPS)
- **Head of Mathematics Department**, Faculty of Sciences and IT, Al Zaytoonah University of Jordan, October 1, 2020 – 2022.
- **Head of Physics Department**, Faculty of Sciences and IT, Al Zaytoonah University of Jordan, October 1, 2021 – 2022.
- **Member of University Council**, Al-Zaytoonah University of Jordan, Amman, Jordan. September 15, 2019 – September 15, 2020.
- **Member of Faculty of Science and Information Technology Council**, Al-Zaytoonah University of Jordan, Amman, Jordan. September 15, 2019 – now.
- **Chief Organizer**: International Center for Scientific Research and Studies (ICSRS), Jordan. September 1, 2008 – now.
- **Chairman of Department Mathematics**, Al Baha Al Ahliyya College of Science, Saudi Arabia. September 1, 2005– September 15, 2006.

5. Research Interests

- Mathematical Analysis
- Curve Cryptography
- Probabilistic Normed Space
- Random n-Normed Space
- triangular norms and triangular co-norms
- Fuzzy implication and Fuzzy Co-implication
- Orlicz functions
- Fuzzy norm space and Fuzzy Anti-norm space
- Fuzzy metric Space and Fuzzy Anti-metric Space
- Intuitionistic fuzzy normed space.

6. Fellowships and Scholarships

Doctoral Scholarship, UKM University, 2002-2005.

7. Teaching Experience

- ***Graduate Courses***

Course Title	Level	Language of Instruction
Measure theory	Master	English
Functional Analysis	Master	English
Selected Topics of Mathematics	Master	English

- ***Undergraduate Courses***

Course Title	Level	Language of Instruction
General Mathematics	Freshman	Arabic
Calculus I	Freshman	English
Foundation of Mathematics	Freshman	English
Logic and Set Theory	Sophomore	English
Discrete Mathematic	Sophomore	English
Principles of Mathematics	Freshman	Arabic
Calculus II	Sophomore	English
Calculus III	Sophomore	English
Differential Equations	Sophomore	English
Design analysis of Algorisms	Junior	English
Partial Differential Equations I	Junior	English
Probability & Statistics for Engineers	Junior	English
Integral Transforms	Junior	English
Complex Analysis	Junior	Arabic
Real Analysis I	Senior	English
Real Analysis II	Senior	English
Introduction to Data Transmission	Senior	English

8. Supervision of Graduate Research

- Samirh Rizeeq Al-Seadi, Bounded Linear Operators in Random 2-Normed Space, Mathematics Department, College of Science, Taibah University, Saudi Arabia, 2011-2014.
- Raeda M. Al-Khor, Continuous and Bounded Linear Operators in Random n-Normed Space, Mathematics Department, College of Science, Arabic German Academy For Science and Technology, German, 2013-2015.
- Amani Hussein Jablawi, Study of Fuzzy Co-Implication with Respect to t-Norms and t-Conorms, Mathematics Department, College of Science, Taibah University, Saudi Arabia, 2017-2018.
- Najat Mohammad Abed Abdelqader, Hyers-Ulam Stability of Quantum Logic Fuzzy Implication, Mathematics Department, College of Science and Information Technology, Al-Zaytoonah University, Jordan, 2021-2022.
- SAFA' lSSA RAGAB ALFUKAHA, Study of Fuzzy D´-Coimplication with Respect to t-Norms and t-Conorms, Mathematics Department, College of Science and Information Technology, Al-Zaytoonah University, Jordan, 2021-2022.

- Ghada Yahya Eid, The Atomic Solution to the Euler Equation in Fractional Derivative, Mathematics Department, College of Science and Information Technology, Al-Zaytoonah University, Jordan, 2021-2022.
- Leen Obeid, Properties and application of conformable fractional Kumaraswamy inverse exponential distribution, Mathematics Department, College of Science and Information Technology, Al-Zaytoonah University, Jordan, 2023-2024.

9. Publications

Papers in refereed journals

2025 (Scopus Papers)

1. I. Jebril and A. Almashaleh, "Stability of Functional Equations for Dubois-Prade Implications in Fuzzy Logic," in *Lecture Notes in Networks and Systems*, vol. 1531, pp. 130–140, 2025.
2. I. H. Jebril et al., "Application of Ujlayan-Dixit Fractional Gamma with Two-Parameters Probability Distribution," Statistics, Optimization & Information Computing, vol. 14, no. 4, pp. 2104–2117, 2025.
3. I. H. Jebril et al., "Application of Ujlayan-Dixit Fractional Exponential Probability Distribution," Statistics, Optimization & Information Computing, vol. 14, no. 2, pp. 515–525, 2025.
4. A. Anber, Z. Dahmani, and I. Jebril, "Two Classes of Conformable Fractional Evolution Problems Solved by the U-EM Method," Journal of Interdisciplinary Mathematics, vol. 28, no. 4, pp. 1355–1365, 2025.
5. L. Nasrawin et al., "The Impact of Governance Measures on Agency Cost Reduction, Legality, and Sustainable Growth," International Journal of Advanced and Applied Sciences, vol. 12, no. 5, pp. 230–241, 2025.
6. I. H. Jebril and H. Bouhadjera, "Unique Common Fixed Point for Occasionally Weakly Biased Mappings of Type (A) in Ultrametric Space," Pan American Journal of Mathematics, vol. 4, p. 11, 2025.
7. I. H. Jebril et al., "Control Strategies for Mittag-Leffler Synchronization in Variable-Order Fractional FitzHugh–Nagumo Reaction-Diffusion Networks," Contemporary Mathematics (Singapore), vol. 6, no. 5, pp. 6414–6443, 2025.
8. O. Ogilat et al., "Distributed Control for Mittag-Leffler Synchronization of Variable-Order Fractional Gierer–Meinhardt Reaction-Diffusion Systems," Journal of Mathematics, vol. 2025, Art. no. 6554797, 2025.
9. I. Jebril and Z. Dahmani, "New Results on Singularly Perturbed Fractional KdV and KdV-Burgers Equations," Journal of Prime Research in Mathematics, vol. 21, no. 2, pp. 25–36, 2025.
10. I. H. Jebril and H. Bouhadjera, "Metric Domains and Common Fixed Points with Application," Boletim da Sociedade Paranaense de Matemática, vol. 43, 2025.

11. I. H. Jebril and H. Bouhadjera, “Some Fixed Point Results in Dislocated Metric Spaces under Minimum Conditions,” Advances in Fixed Point Theory, vol. 15, p. 8, 2025.
12. I. H. Jebril et al., “Fractional-Order Discrete Predator–Prey System of Leslie Type,” International Journal of Robotics and Control Systems, vol. 5, no. 2, pp. 1519–1538, 2025.

2024 (Scopus Papers)

1. Batiha, I. M., Jebril, I. H., Alshorm, S., Aljazzazi, M., & Alkhazaleh, S. (2024). Numerical approach for solving incommensurate higher-order fractional differential equations. *Nonlinear Dynamics and Systems Theory, 24*(2), 123–134. Retrieved from https://www.scopus.com/inward/record.uri?eid=2-s2.0-85189459040&partnerID=40&md5=6ef2d0c17e68b9d5080ffb8331e2f5c3

2. Batiha, M. I., Amin, M., Mohamed, B., & Jebril, H. I. (2024). Connected metric dimension of the class of ladder graphs. *Mathematical Models in Engineering, 10*(2), 65–74. https://doi.org/10.21595/mme.2024.23934

3. Alomari, M. W., Alshanti, W. G., Batiha, I. M., Guran, L., & Jebril, I. H. (2024). Differential q-calculus of several variables. *Results in Nonlinear Analysis, 7*(3), 109–129. https://doi.org/10.31838/rna/2024.07.03.011

4. Batiha, I. M., Bendib, I., Ouannas, A., Jebril, I. H., Alkhazaleh, S., & Momani, S. (2024). On new results of stability and synchronization in finite-time for Fitiz-Nagamo model using Grownal inequality and Lyapunov function. *Journal of Robotics and Control (JRC), 5*(6), 1897–1909. https://doi.org/10.18196/jrc.v5i6.23211

5. Laid, G. H., Batiha, I. M., Benaoua, L., Oussaeif, T. E., Laouadi, B., & Jebril, I. H. (2024). On a common fixed point theorem in intuitionistic Menger space via C class and inverse C class functions with CLR property. *Nonlinear Functional Analysis and Applications, 29*(3), 899–912. https://doi.org/10.22771/nfaa.2024.29.03.15

6. Jebril, I., Alshorm, S., & Batiha, I. M. (2024). Numerical solution for fractional-order glioblastoma multiforme model. In *Springer Proceedings in Mathematics and Statistics* (Vol. 466, pp. 599–607). https://doi.org/10.1007/978-981-97-4876-1_42

7. Lamamri, A., Jebril, I., Dahmani, Z., Anber, A., Rakah, M., & Alkhazaleh, S. (2024). Fractional calculus in beam deflection: Analyzing nonlinear systems with Caputo and conformable derivatives. *AIMS Mathematics, 9*(8), 21609–21627. https://doi.org/10.3934/math.20241050

8. Jebril, I., Premkumar, M., Abdulsahib, G. M., Ashokkumar, S. R., Dhanasekaran, S., Khalaf, O. I., & Algburi, S. (2024). Deep learning-based DDoS attack detection in Internet of Things: An optimized CNN-BiLSTM architecture with transfer learning and

regularization techniques. *Infocommunications Journal, 16*(1), 2–11. https://doi.org/10.36244/ICJ.2024.1.1

9. Batiha, I. M., Jebril, I. H., Alshorm, S., Anakira, N., & Alkhazaleh, S. (2024). On generalized matrix Mittag-Leffler function. *IAENG International Journal of Applied Mathematics, 54*(3), 576–580. Retrieved from https://www.scopus.com/inward/record.uri?eid=2-s2.0-85189432231&partnerID=40&md5=3caa557fe7ec28f6a6bc48960738c4f3

10. Batiha, I. M., Laouadi, B., Jebril, I. H., Benaoua, L., Oussaeif, T.-E., & Alkhazaleh, S. (2024). Some new fixed point theorems of rational type contraction with an application to coupled fixed point theory. *Advances in Fixed Point Theory, 14*, art. no. 52. https://doi.org/10.28919/afpt/8714

11. Batiha, I. M., Saadeh, R., Jebril, I. H., Qazza, A., Al-Nana, A. A., & Momani, S. (2024). Composite fractional trapezoidal rule with Romberg integration. *CMES - Computer Modeling in Engineering and Sciences, 140*(3), 2729–2745. https://doi.org/10.32604/cmes.2024.051588

12. Batiha, I. M., Jebril, I. H., Abdelnebi, A., Dahmani, Z., Alkhazaleh, S., & Anakira, N. (2024). A new fractional representation of the higher-order Taylor scheme. *Computational and Mathematical Methods, 2024*, art. no. 2849717. https://doi.org/10.1155/2024/2849717

13. Batiha, I. M., Allouch, N., Jebril, I. H., & Momani, S. (2024). A robust scheme for reduction of higher fractional-order systems. *Journal of Engineering Mathematics, 144*(1), art. no. 4. https://doi.org/10.1007/s10665-023-10310-6

14. Anber, A., Jebril, I., Dahmani, Z., Bedjaoui, N., & Lamamri, A. (2024). The tanh method and the (G′/G) expansion method for solving the space-time conformable FZK and FZZ evolution equations. *International Journal of Innovative Computing, Information and Control, 20*(2), 557–573. https://doi.org/10.24507/ijicic.20.02.557

15. Batiha, I. M., Momani, S., Batyha, R. M., Jebril, I. H., Judeh, D. A., & Oudetallah, J. (2024). DC motor speed control via fractional-order PID controllers. *International Journal of Fuzzy Logic and Intelligent Systems, 24*(1), 74–82. https://doi.org/10.5391/IJFIS.2024.24.1.74

16. Batiha, I. M., Benguesmia, A., Oussaeif, T.-E., Jebril, I. H., Ouannas, A., & Momani, S. (2024). Study of a superlinear problem for a time fractional parabolic equation under integral over-determination condition. *IAENG International Journal of Applied Mathematics, 54*(2), 187–193. Retrieved from https://www.scopus.com/inward/record.uri?eid=2-s2.0-85185226986&partnerID=40&md5=609edccaae37973b5ccb762d99e104ae

17. Batiha, I. M., Jebril, I. H., Alshorm, S., Al-Nana, A. A., & Alkhazaleh, S. (2024). Handling systems of fractional stochastic differential equations using modified fractional Euler method. *Global and Stochastic Analysis, 11*(1), 95–105. Retrieved from https://www.scopus.com/inward/record.uri?eid=2-s2.0-85178275776&partnerID=40&md5=855cdae73bd885e35669bf02e6e119e6

18. Batiha, I. M., Ogilat, O., Bendib, I., Ouannas, A., Jebril, I. H., & Anakira, N. (2024). Finite-time dynamics of the fractional-order epidemic model: Stability, synchronization, and simulations. *Chaos, Solitons and Fractals: X, 13*, art. no. 100118. https://doi.org/10.1016/j.csfx.2024.100118

19. Bouchenak, A., Batiha, I. M., Aljazzazi, M., Jebril, I. H., Al-Horani, M., & Khalil, R. (2024). Atomic exact solution for some fractional partial differential equations in Banach spaces. *Partial Differential Equations in Applied Mathematics, 9*, art. no. 100626. https://doi.org/10.1016/j.padiff.2024.100626

20. **Batiha, I. M., Jebril, I. H., Chebana, Z., Oussaeif, T.-E., Dehilis, S., & Alkhazaleh, S.** (2024). Finite-time blow-up and solvability of a weak solution for a superlinear reaction-diffusion problem with integral conditions of the second type. *Advances in Fixed Point Theory, 14*, art. no. 45. https://doi.org/10.28919/afpt/8708

21. **Momani, S., Batiha, I. M., Abdelnebi, A., & Jebril, I. H.** (2024). A powerful tool for dealing with high-dimensional fractional-order systems with applications to fractional Emden–Fowler systems. *Chaos, Solitons and Fractals: X, 12*, art. no. 100110. https://doi.org/10.1016/j.csfx.2024.100110

22. **Shqair, M., Batiha, I. M., Abu-Sei'leek, M. H. E., Alshorm, S., Abdelnebi, A., Jebril, I. H., & Abd El-Azeem, S. A.** (2024). Numerical solutions for fractional multi-group neutron diffusion system of equations. *International Journal of Neutrosophic Science, 24*(4), 8–38. https://doi.org/10.54216/IJNS.240401

23. **Alia, M., Jaradat, Y., Masoud, M., Swais, K., Manasrah, A., Jebril, I., & Almanasra, S.** (2024). Low-cost IoT-based charging management system for electric vehicles: Design guidelines. *International Journal of Advances in Soft Computing and its Applications, 16*(1), 56–67. https://doi.org/10.15849/IJASCA.240330.04

24. **Jebril, I., Al-Zaqeba, M. A. A., Al-Khawaja, H. A., Al Obaidy, A. L. A., & Marashdah, O. S.** (2024). Enhancing estate governance using blockchain technology through risk management in estate governance of business sustainability. *International Journal of Data and Network Science, 8*(3), 1649–1658. https://doi.org/10.5267/j.ijdns.2024.3.002

25. **Batiha, I. M., Mohamed, B., & Jebril, I. H.** (2024). Secure metric dimension of new classes of graphs. *Mathematical Models in Engineering, 10*(3), 161–167. https://doi.org/10.21595/mme.2024.24168

26. **Althunibat, A., Alsawareah, B., Maidin, S. S., Hawashin, B., Jebril, I., Zaqaibeh, B., & Al-Khawaja, H. A.** (2024). Detecting ambiguities in requirement documents written in Arabic using machine learning algorithms. *International Journal of Cloud Applications and Computing, 14*(1). https://doi.org/10.4018/IJCAC.339563

27. **Batiha, I. M., Jebril, I. H., & Mohamed, B.** (2024). Determining the dominant metric dimension for various graphs. *Journal of Mechanics of Continua and Mathematical Sciences, 19*(10), 105–116. https://doi.org/10.26782/jmcms.2024.10.00007

28. **Batiha, I. M., Jebril, I. H., Al-Nana, A. A., & Alshorm, S.** (2024). A simple harmonic quantum oscillator: Fractionalization and solution. *Mathematical Models in Engineering, 10*(1), 26–34. https://doi.org/10.21595/mme.2024.23904

29. **Batiha, I. M., Jebril, I. H., Benaoua, L., Berrah, K., Oussaeif, T.-E., Aliouche, A., & Alkhazaleh, S.** (2024). Application and theorems of common fixed points in intuitionistic Menger space under CLR property. *Advances in Fixed Point Theory, 14*, art. no. 59. https://doi.org/10.28919/afpt/8864

30. **Batiha, I. M., Jebril, I. H., Anakira, N., Al-Nana, A. A., Batyha, R., & Momani, S.** (2024). Two-dimensional fractional wave equation via a new numerical approach. *International Journal of Innovative Computing, Information and Control, 20*(4), 1045–1059. https://doi.org/10.24507/ijicic.20.04.1045

2023 (Scopus, 31 Papers)

1. Batiha, I.M., Alshorm, S., Jebril, I., ...Momani, Z., Momani, S., Modified 5-point fractional formula with Richardson extrapolation, AIMS Mathematics, 2023, 8(4), pp. 9520–9534 **(Scopus, Q1) (Impact factor 2.2).**
2. Rakah, M., Anber, A., Dahmani, Z., Jebril, I., An analytic and numerical study for two classes of differential equations of fractional order involving Caputo and Khalil derivatives, *Analele Stiintifice ale Universitatii Al I Cuza din Iasi - Matematica*, 2023, 69(1), pp. 29–48
3. Batiha, I.M., Abubaker, A.A., Jebril, I.H., Al-Shaikh, S.B., Matarneh, K., A Numerical Approach of Handling Fractional Stochastic Differential Equations, Axioms, 2023, 12(4), 388 **(Scopus, Q1) (Impact factor 2).**
4. Shehadeh, H.A., Jebril, I.H., Wang, X., Chu, S.-C., Idris, M.Y.I., Optimal topology planning of electromagnetic waves communication network for underwater sensors using multi-objective optimization algorithms (MOOAs), Automatika, 2023, 64(2), pp. 315–326 **(Scopus, Q1) (Impact factor 1.7).**
5. Batiha, I.M., Abubaker, A.A., Jebril, I.H., Al-Shaikh, S.B., Matarneh, K., New Algorithms for Dealing with Fractional Initial Value Problems, Axioms, 2023, 12(5), 488 **(Scopus, Q1) (Impact factor 2).**
6. Jebril, I., Almaslmani, R., Jarah, B.A.F., Mugableh, M.I., Zaqeeba, N., The impact of strategic intelligence and asset management on enhancing competitive advantage:

The mediating role of cybersecurity Uncertain Supply Chain Management, 2023, 11(3), pp. 1041–1046 **(Scopus, Q1)**

7. Batiha, I.M., Bataihah, A., Al-Nana, A.A., ...Jebril, I.H., Zraiqat, A., A NUMERICAL SCHEME FOR DEALING WITH FRACTIONAL INITIAL VALUE PROBLEM, ICIC Express Letters, 2023, 19(3), pp. 763–774 **(Scopus, Q4)**
8. Er, M.J., Jebril, I.H., Guest Editorial - Fuzzy Optimization and Algorithms in Autonomous Systems, International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2023, 31, pp. V–VII **(Scopus, Q2) (Impact factor 1).**
9. Alshanti, W.G., Batiha, I.M., Alshanty, A., ...Jebril, I.H., Hammad, M.A., Perturbed Trapezoid Like Inequalities, Science and Technology Indonesia, 2023, 8(2), pp. 205–211 **(Scopus, Q2)**
10. Salah, M., Abdalla, A., Abdallah, M., ..., Alokush, B., Jebril, I., Using Virtual Tours as a University Campus Guide: Al-Zaytoonah University Case Study, **Information Sciences Letters**, 2023, 12(9), pp. 2961–2970, 7, **(Scopus, Q2)**
11. Batiha, I.M., Aoua, L.B., Oussaeif, T.-E., ...Jebril, I.H., Momani, S., Common Fixed Point Theorem in Non-Archimedean Menger PM-Spaces Using CLR Property with Application to Functional Equations, IAENG International Journal of Applied Mathematics, 2023, 53(1), IJAM_53_1_42 **(Scopus, Q3)**
12. Ababneh, A.M., Almarashdah, M.A., Jebril, I., Al-Zaqeba, M.A.A., Assaf, N., Driving sustainable supply chains: Blockchain-enabled eco-efficiency for resilient customs ports, Uncertain Supply Chain Management, 2023, 11(4), pp. 1719–1734 **(Scopus, Q1)**
13. Jebril, I., Dhanaraj, P., Abdulsahib, G.M., ...Prabhu, T., Khalaf, O.I., Analysis of Electrically Couple SRR EBG Structure for Sub 6 GHz Wireless Applications, Advances in Decision Sciences, 2023, 26(5) **(Scopus, Q2)**
14. Hammad, M.A., Jebril, I.H., Alshorm, S., Batiha, I.M., Hammad, N.A., Numerical Solution for Fractional-Order Mathematical Model of Immune-Chemotherapeutic Treatment for Breast Cancer Using Modified Fractional Formula, International Journal of Analysis and Applications, 2023, 21, 89 **(Scopus, Q4)**
15. Batiha, I.M., Rezzoug, I., Oussaeif, T.-E., Ouannas, A., Jebril, I.H., POLLUTION DETECTION FOR THE SINGULAR LINEAR PARABOLIC EQUATION, Journal of Applied Mathematics and Informatics, 2023, 41(3), pp. 647–656 **(Scopus, Q4)**
16. Hammad, M.M.A., Jebril, I., Khalil, R., Large Fractional Linear Type Differential Equations, International Journal of Analysis and Applications, 2023, 21, 65 **(Scopus, Q4)**
17. Jebril, I., Eid, G., Hammad, M.'A., AbuJudeh, D., Atomic Solution of Euler Equation, Springer Proceedings in Mathematics and Statistics, 2023, 418, pp. 359–364 **(Scopus, Q4)**
18. Jebril, I.H., Abdelqader, N.M., Hyers-Ulam Stability of Quantum Logic Fuzzy Implication, WSEAS Transactions on Information Science and Applications, 2023, 20, pp. 131–135 **(Scopus, Q3)**
19. Batiha, I.M., Chebana, Z., Oussaeif, T.-E., ...Jebril, I.H., Shatnawi, M., Solvability of Nonlinear Wave Equation with Nonlinear Integral Neumann Conditions, International Journal of Analysis and Applications, 2023, 21, 34 **(Scopus, Q4)**

20. Shehadeh, H.A., Jebril, I.H., Jaradat, G.M., ...Chu, S.-C., Alia, M.A., Intelligent Diagnostic Prediction and Classification System for Parkinson's Disease by Incorporating Sperm Swarm Optimization (SSO) and DensityBased Feature Selection Methods, International Journal of Advances in Soft Computing and its Applications, 2023, 15(1), pp. 113–132 **(Scopus, Q3)**
21. Jaradat, Y., Masoud, M., Jannoud, I., ...Alheyasat, O., Jebril, I., Analysis of the optimal number of clusters and probability in homogeneous unreliable WSNs, Multimedia Tools and Applications, 2023, 82(25), pp. 39633–39652
22. Salah, M., Abdalla, A., Abdallah, M., ...Alokush, B., Jebril, I., Using Virtual Tours as a University Campus Guide: Al-Zaytoonah University Case Study, Information Sciences Letters, 2023, 12(9), pp. 2961–2970, 7
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- Professor Khalid Younes Faleh Al-Zoubi, Department of Mathematics, Yarmouk University, Irbid, Jordan. E-mail : Khalidz@yu.edu.jo.
- Professor Khaled Tawfiq Bataineh, Department of Mathematics and Statistics, Jordan University of Science and Technology, Irbid 22110, Jordan. Email: khaledb@just.edu.jo
- Professor MUSTAPHA RAÏSSOULI, Department of Mathematics, Science Faculty, Moulay Ismail University, Meknes, Morocco.
  E-mail address: raissouli.mustapha@gmail.com
- Professor Hatem Mejjaoli Department of Mathematics, Faculty of Sciences of Tunis – CAMPUS 1060 – Tunis, TUNISIA. e-mail: Mejjaoli_hatem@yahoo.fr
- Professor Feras AL Faqih

Department of Mathematics and Statistics, Faculty of Science Al-Hussein Bin Talal University, Jordan. E-mail: oxfer@Yahoo.com

- Professor Jehad J. Jaraden
  Department of Mathematics and Statistics, Al-Hussein Bin Talal University, Ma'an, Jordan. Email:jjaraden@mtu.edu
- *Muhammed* I. *Syam,*
  United Arab Emirates University, United Arab Emirates.
  E-mail: m.syam@uaeu.ac.ae
- Professor Khalid Mohammad Ahmad Shebrawi
  Al-Salt University College, Al-Balqa' Applied University, Al-Salt, Jordan.
  E-Mail: khalid@bau.edu.jo and shebrawi@gmail.com
- Professor Zoubir DAHMANI
  Laboratory of Pure and Applied Mathematics, UMAB, University of Mostaganem, Algeria, Email: zzdahmani@yahoo.fr
- Professor Hemen Dutta
  Department of Mathematics, Gauhati University, Guwahati-781014, Assam, India.
  E-mail: hemen_dutta08@rediffmail.com
- Professor Moustafa Abou-Dina, Department of Mathematics, Faculty of Science, Cairo University, Giza, Egypt. E-mail: mostafa_aboudina@hotmail.com
- Professor Hatem NAJAR
  Dép. Mathématiques Faculté des Sciences de Monastir Laboratoire de recherche: Algèbre Géométrie et Théorie Spectrale: E-mail: hatemnajar@yahoo.fr
- Professor Mohammad Hafiz Hamdan
  Department of Mathematical Sciences University of New Brunswick P.O. Box 5050 100 Tucker Park Road Saint John, New Brunswick, Canada E2L 4L5
  E-mail: hamdan@unb.ca