

## CURRICULUM VITAE

Prof. Dr. Amjed Mah'd Moh'd Zraiqt.  
Mathematics Department/ Faculty of Sciences and IT  
Al Zaytoonah University of Jordan, Amman, Jordan

**Phone:** 00962 - 6 -4291511 / ext. 380

**Mobile:** 00962-79-0248346

**Fax: Number/s:** 00962 - 6 -4291432

**E-mail:** [amjad@zuj.edu.jo](mailto:amjad@zuj.edu.jo)  
[racusjordan@mail.ru](mailto:racusjordan@mail.ru)

**Homepage:** <https://scholar.google.com/citations?user=w60aMe8AAAAJ&hl=en>



### 1. Personal Data

Date of Birth: 15<sup>th</sup> November, 1964  
Nationality: Jordanian.

### 2. Education

- Ph.D. (Mathematics – Applied Mathematics/ Partial Differential Equations)  
1996, Belarusian State University (BSU), Minsk, Belarus,
- B.Sc. & M.Sc. (Applied Mathematics) Belarusian State University (BSU), Minsk, Belarus,  
1984-1989.  
Thesis: Localization of the Characteristic Numbers of the Linear Integral Equations.

### 3. Ph.D. Dissertation

**Thesis title:** *'Singular Solution and Integral Representations of Solutions of Elasticity of Boundary Value Problems in Stresses'*.

**Key words:** *elasticity theory, stress, displacement, equations Lamé, Beltrami –Michell, Cauchy, singular solution, fundamental matrix, integral representation, overdetermined system, compatibility condition, partial differential equation.*

**Research Synopsis:** Two statements of boundary value problem of elasticity theory in stresses are analyzed, of which is based on Beltrami–Michell system, another one is based on a system of variable



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order composed of Cauchy equilibrium equation and Beltrami –Michell equation relative to tangential stress tensor components. Fundamental matrix, Green formulae and integral representations of smooth solutions of above mentioned systems are derived. Obtained results may be used for determination of stress state of rigid bodies by boundary-integral equation method.

#### 4. Employment

- 1<sup>st</sup> Oct. 2020-30<sup>th</sup> Sep. 2023* : Dean of Faculty of Sciences and IT,  
Al Zaytoonah University of Jordan
- 5<sup>th</sup> Oct 2016-30<sup>th</sup> Sep. 2020* : Head of Department of Mathematics,  
Faculty of Science and IT,  
Al Zaytoonah University of Jordan
- 5<sup>th</sup> Oct 2015-30<sup>th</sup> Sep. 2016* : Department of Mathematics,  
Faculty of Science and IT,  
Al Zaytoonah University of Jordan
- 5<sup>th</sup> Oct. 2013- 30<sup>th</sup> Sep. 2015* : Head of Department of Mathematics,  
Faculty of Science and IT,  
Al Zaytoonah University of Jordan
- 5<sup>th</sup> Oct. 2012 - 30<sup>th</sup> Sep. 2013* : Vice Dean of Student Affairs,  
Al Zaytoonah University of Jordan

#### Academic Positions

- 11<sup>th</sup> Mar. 2019- Present* : Professor  
Department of Mathematics, Faculty of Science and  
IT, Al Zaytoonah University of Jordan
- 23<sup>th</sup> Nov. 2011- 11<sup>th</sup>  
Mar. 2019* : Associate Professor  
Department of Mathematics, Faculty of Science and  
IT, Al Zaytoonah University of Jordan
- Sep. 1999 – 23<sup>th</sup> Nov.  
2011* : Assistant Professor -  
Department of Mathematics, Faculty of Science and IT  
Al Zaytoonah University of Jordan
- Sep. 1997 – 20<sup>th</sup> Sep.  
1999* Assistant Professor -  
Department of Mathematics, Faculty of Science  
Applied Science University - Jordan



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- Sep. 1996 – Sep. 1997* : Assistant Professor -  
Department of Mathematics, Faculty of Sciences and IT  
Al Zaytoonah University of Jordan
- Sep. 1992 – Jan. 1996* : Teaching Assistant  
Belarusian State University (BSU), Minsk, Belarus  
Taught Special courses: Tutorial for basic courses.
- Oct. 1989- Jun. 1992* : Lecturer  
Alkarak Government College, Alkarak, Jordan.

### Administrative Positions

- Dean of Faculty of Sciences and IT, Al Zaytoonah University of Jordan, September Oct. 2020- 30<sup>th</sup> Sep. 2023.
- Head of Department of Mathematics, Faculty of Sciences and IT, Al Zaytoonah University of Jordan, September Oct. 2016 - 2020.
- Head of Department of Mathematics, Faculty of Sciences and IT, Al Zaytoonah University of Jordan, Jordan, Oct. 2013 – Oct. 2015.
- Vice Dean of Student Affairs, Al Zaytoonah University of Jordan, Jordan, 1<sup>st</sup> Oct. 2012 – 30<sup>th</sup> Sep. 2013.

### 5. Research Interests

Applied Mathematics, Partial & Ordinary Differential Equations.

### 6. Membership in Scientific Societies and Associations

- Doctoral Scholarship, Belarusian State University, 1992-1996.
- Ministry of Higher Education, Scholarship, Belarus, 1983-1989.

### 7. Teaching Experience

- *Graduate Courses*
  - Biostatistics
  - Applied Mathematics
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- **Undergraduate Courses**

- Applied Mathematics
- Special Functions
- Vectors
- Ordinary Differential Equations I
- Calculus III
- Mathematical Statistics
- Theory of Probability
- Statistical Techniques
- History of Mathematics
- Partial Differential Equations
- Mathematical methods
- Ordinary Differential Equations II
- Calculus III for Engineers
- Calculus II
- Calculus I
- Linear Algebra I

## 8. Supervision of Graduate Research

Thesis Title (Master)	Student Name	Year
Measurement theory and its applications in probability theory	Raafat Tomah Haddad	2005
Fractional Ordinary differential Equations via Fractional Laplace Transform	Yazan Hussein Maddallah Alhrout	2025
Properties of Conformable Fractional F- Distribution	Balqis Ibrahim Alma'aitah	2025

## 9. Grants

- Research Project: “The Efficiency of the Training Program for Developing Teaching Methods of Math Teachers in the School of Um-Al-Basateen Municipality”, Al Zaytoonah University of Jordan, 13,870 Jordan Dinar, October, 2018- January, 2020.
- Research Project: “Mathematical Model for Stability Analysis of Maximum Power Point Tracking Control in Solar Systems”, Al Zaytoonah University of Jordan, 16,900 Jordan Dinar, April, 2019- April, 2021.
- Research Project: “The effectiveness of applying research partnerships with research centers to stimulate scientific publishing in the Faculty of Science and Information Technology”, Al Zaytoonah University of Jordan, 16,900 Jordan Dinar, April, 2019- April, 2021.



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**10. Membership of Committees**

No.	Dates	Description
1.	2023	General Chair: The 11 <sup>th</sup> International Conference on Information Technology – ICIT2021, Al Zaytoonah University of Jordan – Jordan, 09-10 August 2023
2.	2023	Organizing Committee: The 8 <sup>th</sup> International Arab Conference on Mathematics and Computations (IACMC 2019), May 10-12 - 2023, Zarqa University.
3.	2021	General Chair: The 10 <sup>th</sup> International Conference on Information Technology – ICIT2021, Al Zaytoonah University of Jordan – Jordan, 14-15 July 2021
4.	2019	Technical program Committee: The 9 <sup>th</sup> International Conference on Information Technology - ICIT'2019 – Al Zaytoonah University of Jordan – Jordan
5.	2019	Organizing Committee: The 6 <sup>th</sup> International Arab Conference on Mathematics and Computations (IACMC 2019), April 24-26 - 2019, Zarqa University.
6.	2018	Thesis Examiner: AlaaIdeen Hamzeh, Master Degree “Solutions of Nonlinear Volterre-Fredholm Integro-Differential Equations”, Zarqa University – Jordan
7.	2017	Chair of the reception Committee: The 8 <sup>th</sup> International Conference on Information Technology - ICIT'2017 – Al Zaytoonah University of Jordan – Jordan
8.	2017	Technical and Organizing Committee: The 8 <sup>th</sup> International Conference on Information Technology - ICIT'2017 – Al Zaytoonah University of Jordan – Jordan.
9.	2016-2019	Member of Scientific Research Council - Faculty of Science and Information Technology - Al Zaytoonah University of Jordan
10.	2015	Organizing Committee: The 7 <sup>th</sup> International Conference on Information Technology - ICIT'2015 – Al Zaytoonah University of Jordan - Jordan, May 2015.
11.	2014	Colloquium Program Organizing: the 3 <sup>rd</sup> Information Technology Colloquium 2014 - ITC'14, Faculty of science and IT, Al Zaytoonah Uni. of Jordan- will be on 6th May, 2014.
12.	2014	Participation in the workshop entitled "Planning for the study of self-evaluation and its implementation mechanisms"



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13.	2013	Technical Committee: The 6 <sup>th</sup> International Conference on Information Technology - ICIT'2013 – Al Zaytoonah University of Jordan - Jordan, May 2013.
14.	2011-2015	Member of the disciplinary committee of students at the university.
15.	2011-2013	Member of the Quality Assurance Committee at the Faculty of Science & IT
16.	2010-2015	Member of the Higher Committee for Elections of the student council in the University
17.	2009-2013	Representative of the Department of Mathematics in the Faculty of Science & IT council.
18.	2004	Member of the organizing committee of the 6 <sup>th</sup> Jordanian international congress of mathematics at Yarmouk University, Irbid - Jordan (Aug. 31 - Sept. 3, 2004).
19.	2003-2019	Chairman of the Commission of Inquiry for Faculty of Science.
20.	2002	Member of the organizing committee of the 5 <sup>th</sup> Jordanian international congress of mathematics, Yarmouk University, Irbid - Jordan (Sept. 3 - 5, 2002).
21.	2001-2005	Member of the Jordanian Mathematical Society Council
22.	2001-present	Member of the Jordanian Mathematical Society
23.	1999-2020	Chairman of the Cultural and Social Committee for Faculty of Science.

### **11. Participation in or organization of curricular and/or extra-curricular activities**

No.	Curricular	Year
1.	Mathematics, Al Zaytoonah University, Jordan	2013,2016,2017,2018
2.	Mathematics, Applied Science University, Jordan	1997



## 12. Publications

1. **Amjed Zraiqt**, Belal Batiha, Maha Al Soudi, Ibraheem Kasim Ibraheem, Aseel Smerat, Zeinab Montazeri, Mohammad Dehghani et al. "Detective Algorithm: A Novel Human-inspired Metaheuristic for Solving Real-world Constrained Optimization Problems.", International Journal of Intelligent Engineering & Systems, 18(10),2025.
2. **Amjed Zraiqt**, Belal Batiha, Maha Al Soudi, AL-Salih Madhloom, Aseel Smerat, Zeinab Montazeri, Mohammad Dehghani, Om Parkash Malik, Mahmood Anees Ahmed, Ibraheem Kasim Ibraheem, "Library and Readers Algorithm (LRA): A Novel Human-Inspired Parameter-Free Metaheuristic for Efficient Global Optimization.", International Journal of Intelligent Engineering & Systems, 18 (9), 2025.
3. **Amjed Zraiqt**, Omar Al Sayyed, Maha Al Soudi, AL-Salih Madhloom, Aseel Smerat, Zeinab Montazeri, Mohammad Dehghani, Om Parkash Malik, Mahmood Anees Ahmed, Ibraheem Kasim Ibraheem, "Key Maker Algorithm: A Novel Human-Based Metaheuristic for Constrained Optimization.", International Journal of Intelligent Engineering & Systems, 18 (9), 2025.
4. **Amjed Zraiqt**, Omar Al Sayyed, Maha Al Soudi, Asaad Abdul Malik Madhloom AL-Salih, Aseel Smerat, Zeinab Montazeri, Mohammad Dehghani, Frank Werner, Mahmood Anees Ahmed, Ibraheem Kasim Ibraheem, Kei Eguchi, "Driver and Navigator Algorithm: A Novel Parameter-Free Human-inspired Metaheuristic for Efficient Global Optimization", International Journal of Intelligent Engineering & Systems, 18 (9), 2025.
5. **Amjed Zraiqt**, Belal Batiha, Oqlah Al-Refai, Asaad Abdul Malik Madhloom AL-Salih, Aseel Smerat, Zeinab Montazeri, Mohammad Dehghani, Om Parkash Malik, Mahmood Anees Ahmed, Ibraheem Kasim Ibraheem, Kei Eguchi, "Community-Based Crisis Management Algorithm (CCMA): A Novel Parameter-Free Metaheuristic for Complex Constrained Optimization.", International Journal of Intelligent Engineering & Systems, 18 (8), 2025.
6. **Amjed Zraiqt**, Belal Batiha, Oqlah Al-Refai, Mahmood Anees Ahmed, Aseel Smerat, Zeinab Montazeri, Mohammad Dehghani, Om Parkash Malik, Asaad Abdul Malik Madhloom AL-Salih, Ibraheem Kasim Ibraheem, Kei Eguchi, "Court and Judge Algorithm (CJA): A Novel Human-Inspired Metaheuristic for Engineering Optimization.", International Journal of Intelligent Engineering & Systems, 18 (8), 2025.
7. **Amjed Zraiqt**, Belal Batiha, Oqlah Al-Refai, Asaad Abdul Malik Madhloom AL-Salih, Aseel Smerat, Zeinab Montazeri, Mohammad Dehghani, Widi Aribowo, Mahmood Anees Ahmed, Ibraheem Kasim Ibraheem, Kei Eguchi, "Thunderstorm and



- Cloud Algorithm: A Novel Parameter-Free Metaheuristic Inspired by Atmospheric Dynamics for Complex Optimization Tasks.', *International Journal of Intelligent Engineering & Systems*, 18 (8), 2025.
8. **Amjed Zraiqt**, Alaa Al-Wadi, Rania Saadeh, Alaa Al-Zboon, Iqbal Jebriil, Ahmad Qazza, "A New Analytical Approach to Fractional Calculus via Mittag-Leffler Functions and the complex Sawi Transform", 12th International Conference on Information Technology (ICIT), 2025.
  9. **Amjed Zraiqt**, Belal Batiha, Oqlah Al-Refai, Asaad Abdul Malik Madhloom AL-Salih, Aseel Smerat, Zeinab Montazeri, Mohammad Dehghani, Frank Werner, Mahmood Anees Ahmed, Ibraheem Kasim Ibraheem, Kei Eguchi, "Psychologist Algorithm: A Human-inspired Metaheuristic for Solving Complex Constrained Optimization Problems", *International Journal of Intelligent Engineering & Systems*, 18 (9), 2025.
  10. Hammad, Ma'mon Abu; Diabi, Louiza; Dababneh, Amer; **Zraiqt, Amjed**; Momani, Shaher; Ouannas, Adel; Hioual, Amel, "On New Symmetric Fractional Discrete-Time Systems: Chaos, Complexity, and Control", *Symmetry* 2024, 16(7), 840; <https://doi.org/10.3390/sym16070840>.
  11. **A Zraiqt**, IM Batiha, S Alshorm, "Numerical Comparisons Between Some Recent Modifications of Fractional Euler Methods", *WSEAS Transactions on Mathematics* 2024, V. 23, Pages: 529-535, DOI: 10.37394/23206.2024.23.55.
  12. L. Hawawsheh, A. Qazza, R. Saadeh, **Amjed Zraiqt**, Batiha, I.M., "L<sup>p</sup>-Mapping Properties of a Class of Spherical Integral Operators", *Axioms*, 2023, 12 (9), 802. <https://doi.org/10.3390/axioms12090802>.
  13. Fadi B Ahmad; Haitham Qawaqneh; **Amjed Zraiqt**; Sabah Jamil Al Nawaiseh, "The Effectiveness of Nearpod in Developing Online Interactive Lesson Design Skills for Mathematics and Computer Teachers", 2023 International Conference on Information Technology: Cybersecurity Challenges for Sustainable Cities, ICIT 2023 - Proceeding, 2023, pp. 292–294
  14. S Rasem, **Amjed Zraiqt**, WG Alshanti, A Farah, "Bayesian Estimation for Inverse-Gaussian Distribution under Square Error Loss Function", 2023 International Conference on Information Technology: Cybersecurity Challenges for Sustainable Cities, ICIT 2023 - Proceeding, 2023, pp. 339–342.
  15. Batiha, I.M., Alshorm, **Amjed Zraiqt**, Alia, M., Jebriil, I., "Numerical Solution for Incommensurate System of Fractional Order Differential Equations", 2023 International Conference on Information Technology: Cybersecurity Challenges for Sustainable Cities, ICIT 2023 - Proceeding, 2023, pp. 652–656



16. Abu-Shanab, S.A., Alzu'Bi, S., **Amjed Zraiqa**t, "A Novel Virtual Cosmetics Recommender System Based on Pre-Trained Computer Vision Models", 2023 International Conference on Information Technology: Cybersecurity Challenges for Sustainable Cities, ICIT 2023 - Proceeding, 2023, pp. 765–770
17. Batiha, Iqbal M., Anwar Bataihah, Abeer A. Al-Nana, Shameseddin Alshorm, Iqbal H. Jebril, and **Amjed Zraiqa**t. "A NUMERICAL SCHEME FOR DEALING WITH FRACTIONAL INITIAL VALUE PROBLEM." International Journal of Innovative Computing, Information and Control ICIC International, V. 19, Number 3, June 2023 pp. 763–774.
18. Batiha, Iqbal M., Shameseddin Alshorm, Iqbal Jebril, **Amjed Zraiqa**t, Zaid Momani, and Shaher Momani. "Modified 5-point fractional formula with Richardson extrapolation." AIMS Mathematics, 2023, 8(4), pp. 9520–9534.
19. Daoud, Mohammad Shehab, Laith Abualigah, **Amjed Zraiqa**t, and Cuong-Le Thanh. "Improved Harris Hawks Optimization Algorithm for Solving Real Engineering Optimization Problems." (2023).
20. Batiha, Iqbal M., Zainouba Chebana, Taki-Eddine Oussaeif, Adel Ouannas, Shameseddin Alshorm, and **Amjed Zraiqa**t. "Solvability and Dynamics of Superlinear Reaction Diffusion Problem with Integral Condition." IAENG International Journal of Applied Mathematics 53, no. 1 (2023): 1-9.
21. AlZu'bi, Shadi, **Amjed Zraiqa**t, and Samar Hendawi. "Sustainable Development: A Semantics-aware Trends for Movies Recommendation System using Modern NLP." International Journal of Advances in Soft Computing & Its Applications 14, no. 3 (2022).
22. Shadi AlZu'bi, Raed Abu Zitar, Bilal Hawashin, Samia Abu Shanab, **Amjed Zraiqa**t, Ala Mughaid, Khaled H. Almotairi and Laith Abualigah, "A Novel Deep Learning Technique for Detecting Emotional Impact in Online Education", Electronics 2022, 11, 2964. <https://doi.org/10.3390/electronics11182964>, <https://www.mdpi.com/journal/electronics>
23. Batiha, I.M., Njadat, S.A., Batyha, R. M., **Amjed Zraiqa**t, Dababneh, A., Momani, S., "Design Fractional-order PID Controllers for Single-Joint Robot Arm Model", International Journal of Advances in Soft Computing and its Applications, 2022, 14(2), pp. 96–114.
24. Amer Dababneh, **Amjed Zraiqa**t, Abdulkarim Farah, Hassan Al-Zoubi, Ma'Mon Abu Hammad "Numerical methods for finding periodic solutions of ordinary differential equations with strong nonlinearity", J. Math. Comput. Sci., V.11(6), 2021, Pp. 6910-6922.



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25. Dababneh, Amer, Abu Hammad, Ma'Mon, **Amjed Zraiqt**, Albarmawi, Bilal, Abrikah, Siham Ali, "Conformable Fractional of Euler Type Equation", 2021 International Conference on Information Technology, (ICIT), Pp. 19 – 20, Publisher IEEE.
26. Haitham Qawaqneh, Fadi Bani Ahmad, **Amjed Zraiqt** "The Effect of Using Cyber Hunt Strategy on Developing the Mathematical Academic Achievement for Jordanian Universities Students", 2021 International Conference on Information Technology (ICIT), Pp. 549-552, Publisher IEEE.
27. Adel Ouannas, Iqbal M Batiha, Amina-Aicha Khennaoui, **Amjed Zraiqt**, Abeer A Al-Nana " Novel Control Law for the Fractional-order Chaotic Duffing Map ", 2021 International Conference on Information Technology (ICIT), Pp. 238-241, Publisher IEEE.
28. Haitham Qawaqneh, Mohd Salmi Md Noorani, Hassen Aydi, **Amjed Zraiqt**, Arslan Hojat Ansari " On Fixed Point Results in Partial-Metric Spaces " Journal of Function Spaces, 2021.
29. Abdulkarim Farah, Amer Dababneh, **Amjed Zraiqt** "On Non-Parametric Criteria for Random Communication and Processes Relationship" International journal of advanced Science and Engineering, V.7(2), Pp.1675-1690, 2020
30. Hamadneh, Tareq, **Amjed Zraiqt**, Hassan Al-Zoubi, and Mohammed Elbes. "Sufficient Conditions and Bounding Properties for Control Functions Using Bernstein Expansion." Applied Mathematics & Information Sciences 14, Pp. 1-9 (2020).
31. Amer Dababneh, B Sami, Ma'mon Abu Hammad, **Amjed Zraiqt** "A new impulsive sequential multi-orders fractional differential equation with boundary conditions" V.10(6), Pages:2871-2890 - J. Math. Comput. Sci., 2020
32. **Amjed Zraiqt**, Tareq Hamadneh "Fast Optimization and Properties of Nonlinear Polynomial Functions Using Bernstein Method" RUDN University (Russia) and Institute Denis Poisson (France), the International Conference "Singular Problems, Blow-up and Regimes with Peaking in Nonlinear PDEs". Moscow, Nov. 10-14, 2019.
33. **Amjed Zraiqt**, S.K. Paikray, Hemen Dutta "A Certain Class of Deferred Weighted Statistical B-Summability Involving (p; q)-Integers and Analogous Approximation Theorems" Filomat 33:5 (2019), 1425–1444, <https://doi.org/10.2298/FIL1905425Z>, Published by Faculty of Sciences and Mathematics, University of Nis, Serbia, Available at: <http://www.pmf.ni.ac.rs/filomat>.



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34. **Amjed Zraiqt**, "Inclusion and Equivalence Relations between Absolute Nörlund and Absolute Weighted Mean Summability Methods". Bol. Soc. Paran. Mat., will be published in (3s.) v. 37 4 (2019): Pp.103–117.
35. Amer Dababneh, Bilal Albarmawi, **Amjed Zraiqt**, Tareq Hamadneh, "Conformable Fractional Bernoulli Differential Equation with Applications", 2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT), 2019, Pp. 421-424
36. M. Abu-Zreig, **Amjed Zraiqt**, M. A. M. Abd Elbasit "SEEPAGE RATE FROM CERAMIC PITCHERS UNDER POSITIVE AND NEGATIVE HYDRAULIC HEAD". Applied Engineering in Agriculture, Vol. 34(4): 707-714 © 2018 American Society of Agricultural and Biological Engineers ISSN 0883-8542 <https://doi.org/10.13031/aea.12813>
37. **Amjed Zraiqt**, "BOUBAKER PIVOTAL ITERATION SCHEME (BPIS)". Italian journal of pure and applied mathematics – №37–2017, Pp.127-138.
38. **Amjed Zraiqt**, Laith K. Al-Hwawcha, "On Exact Solutions of Second Order Nonlinear Ordinary Differential Equations". Applied Mathematics Vol.6 No.6 pp.953-957, June 2, 2015
39. **Amjed Zraiqt**, "ABSOLUTE TRANSLATIVITY OF GENERALIZED NÖRLUND MEAN" Proceedings of the 2nd International Conference on Computing, Mathematics and Statistics (iCMS2015), chapter 18, pp.175-186, 4-5 November 2015, Langkawi Island, Kedah Malaysia.
40. **Amjed Zraiqt**, "Equivalence Relations Between Absolute Riezs and the Product of Two Absolute Riezs Summability Methods" Proceedings of the World Congress on Engineering and Computer Science 2014 Vol II, pp. 893-898, WCECS 2014, 22-24 October, 2014, San Francisco, USA
41. **Amjed Zraiqt**, Amer Dababneh, "Study of Development of Cracks under Compressive Stresses". Applied Mathematical Sciences, Vol. 7, 2013, no. 33, pp. 1611 – 1622, HIKARI Ltd, [www.m-hikari.com](http://www.m-hikari.com).
42. **Amjed Zraiqt**, Azmi K. Al-Madi, "On Translativity of the Product of Riesz Nörlund Summability Methods". Applied Mathematical Sciences, Vol. 7, 2013, no. 33, pp. 1601 – 1610, HIKARI Ltd, [www.m-hikari.com](http://www.m-hikari.com).
43. **Abo-Izreik, A.**, Abu-Zreig, M., "Soil reclamation and drainage with evaporation drainage methods", American Society of Agricultural and Biological Engineers Annual International Meeting 2012, ASABE 2012, 2012, 6, Pp. 4968–4974.
44. **Abo-Izreik Amjed**, "A Estimation of Cracks Behavior in Rock's Massif with



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- Underground Structures” Journal of Applied Sciences Research, Vol.7 (3) 2011, pp.340-345, [www.aensiweb.com](http://www.aensiweb.com).
45. **Abo-Izreik Amjed**, One Approach to Assessing the Fragility of the (Crack Resistance) Rock Formations. European Journal of Scientific Research, Vol.51, No.2 (2011), pp.254-259, <http://www.eurojournals.com/ejsr.htm>.
  46. **Abo-Izreik Amjed**, "Probabilistic Model of Brittle Fracture of Geomaterials". Advances in Natural and Applied Sciences, 4(2): pp. 117-123, 2010, [www.aensiweb.com](http://www.aensiweb.com).
  47. Majed M Abu-Zreig, Yukuo Abe, Hiroko Isoda, **Amjed Abo-Izreik** "Land Drainage with Evaporation Drainage Method". American Society of Agricultural and Biological Engineers, St. Joseph, Michigan [www.asabe.org](http://www.asabe.org), 2007 ASABE Annual Meeting.
  48. **Abo-Izreik Amjed**, Azmi K. Almadi "On translativity of absolute Rogosinsky-Bernstein methods of different order" ISSN 0321-0367. Bulletin of the Belarusian State University. Ser. 1, Physics. Math's. Computer science. - 2006. - № 1. - p. 101-105.
  49. M. Zhuravkov, S. Pavlov and **Abo-Izreik Amjed** "APPLIED THEORY OF CRACKS BEHAVIOR IN ROCK MASSIFS". European Congress on Computational Methods in Applied Sciences and Engineering, Finland, Jyväskylä, July, 2004.
  50. I.S. Nevelson, M.A. Zhuravkov, O.V. Stagorova, **Abo-Izreik Amjed** "Computer modeling of Geomechanical processes. Part 2. Investigation a hole state in potash rocks Massif // "The Surveying bulletin" (Moscow). N4. 2003. P.57-60  
In Russian (Невельсон И.С., Журавков М.А., Стагурова О.В., Абу-Изрейк Амджад "Компьютерное моделирование геомеханических процессов. Ч.2. Исследование состояния скважины в нарушенном массиве соляных пород // Маркшейдерский вестник. №4. 2003. С. 57-60.)
  51. M.A. Zhuravkov, **Abo-Izreik Amjed** "Computer modeling of geomechanical processes. Part1.General position" // "The Surveying bulletin" (Moscow). N1. 2003. P.61-66. In Russian (Журавков М.А., Абу-Изрейк Амджад "Компьютерное моделирование геомеханических процессов. Ч.1. Общие положения // Маркшейдерский вестник. №1. 2003. С.61-66.)
  52. **Abo-Izreik Amjed**, "Solution of the nonlinear geomechanics problems by the method of Green's quasifunction Part 1. Take into consideration the nonlinear effects and small disturbance of the mechanical characteristics of mining rocks". Journal of Inst. Of Math. & Comp. Sci. (Math. Ser, India) Vol. 14, No. 3(2001)283-288.
  53. Snezhana Drozd and **Abo-Izreik Amjed**, "Prediction of Phisico-Mecanical Properties and Behavior of the Pipe Line Materials in Oil Industry". Second Belarusian Congress on Theoretical Mechanics "Mechanics-99", June 28-30, Minsk-1999, Pp. 76-77.



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54. M.A. Zhuravkov, M.D. Martynenko, **Abo-Izreik Amjed** "Problem formulation of the model problems of geomechanics". Matrix of fundamental solutions and integral representations for the problems in terms of stresses". Izv. Universities. Mining Journal. № 1-2, 1997. Pp.44-50.
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**\*Please note that: My family name was Abo-Izreik**