

## CURRICULUM VITAE

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### 1. Personal Data:

Date of Birth: 1<sup>st</sup> February, 1969

Nationality: Jordanian.

### 2. Education:

- **Ph.D.** (Mathematics – Applied Mathematics/ Partial Differential Equations)  
2003, Institute of Mathematics/Belarusian National Academy of Science, Minsk, Belarus,
- **B.Sc. & M.Sc.** Gomel State University, Gomel, Minsk

### 3. Ph.D. Dissertation:

**Thesis title:** “Minimax estimation of solutions and right-hand sides  $s$  of elliptic equations with discontinuous coefficients under uncertainty conditions”.

**Keywords:** Minimax estimation, Elliptic partial differential equations, Transmission problem, Boundary value problem.



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**Research Synopsis:** The systems described by linear elliptic partial differential equations of the second order are chosen as an object of investigation. The subject of investigation is the observation problems under incomplete data when the observed functions are connected with solutions of the considered boundary value problems by means of linear integral operators with additive random errors of measurements. Problems of estimation are reduced to certain problems of optimal control of adjoint equations with the quadratic performance criteria under the restrictions on control and without them.

General methods of investigation are essentially based on modern achievements in such fields as optimization and identification for partial differential equations.

#### 4. Employment

*Dec 2022- Present* : Associate Professor, Department of Mathematics  
Faculty of Sciences and IT, Al Zaytoonah University  
of Jordan, Amman, Jordan.

*Oct 2016- Dec 2022* : Assistant Professor, Department of Mathematics  
Faculty of Sciences and IT, Al Zaytoonah University  
of Jordan, Amman, Jordan.

*Oct 2011-30<sup>th</sup> Sep. 2013* : Assistant Professor, Department of Mathematics  
Faculty of Sciences and IT, Al Zaytoonah University  
of Jordan, Amman, Jordan.

*Sep. 2003 – Sep. 2007* : Assistant Professor, Department of Mathematics  
Faculty of Basic Sciences, Applied Science  
University, Amman, Jordan.

*Sep. 1998 – Sep 2003* : Teaching Assistant  
Belarusian State University of Transport, Gomel,  
Belarus.

#### 5. Research Interests

Applied Mathematics, Differential Equations, Fractional Differential Equations.

#### 6. Scholarships

- Ministry of Higher Education, Scholarship, Belarus, 1986-1992.

#### 7. Supervision of Graduate Research



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1	Main supervisor for master student “Applications of conformable fractional Weibull probability distribution.”, Al-Zaytoonah University of Jordan, Jordan, 2022.
2	Main supervisor for master student “Conformable Fractional Laplace Transform and Fractional Ordinary Differential Equations”, Al-Zaytoonah University of Jordan, Jordan, 2022.

### 8. Grants

- 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-Jordan.

### 9. Teaching Experience

- Calculus I
- Calculus II
- Calculus III
- Advanced Calculus
- Mathematics for computer science
- Ordinary Differential Equations
- Partial Differential Equations
- Applied Mathematics
- Vector Analysis
- Numerical Analysis
- Linear Algebra
- Integral Equations
- Selected topics in Mathematics.
- Laplace Transform.
- Applied Mathematics (Master Degree)

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

No.	Curricular	Year
1.	Mathematics, Al Zaytoonah University, Jordan	2013,2016,2017,2018,2019,2020,2021



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### 11. Membership of Committees

No.	Dates	Description of Scientific, Academic, Administrative Achievements
1.	2018/2019	Member of the Council of the Faculty of Science and Information Technology in Alzaytoonah University of Jordan.
2.	2019	Technical program Committee: The 9th International Conference on Information Technology - ICIT'2019 – Al Zaytoonah University of Jordan – Jordan
3.	2019/2020	Member of the Study Plan and Learning Sources Committee
4.	2019/2020	Member of the examination and Evaluation Committee
5.	2019/2020	Member of the culture, Social and Sports Activities Committee
6.	2020/2021	Member of the Study Plan and Learning Sources Committee
7.	2020/2021	Member of the culture, Social and Sports Activities Committee
8.	2020/2021	Member of the Study Plan and Learning Sources Committee
9.	2021	Technical program Committee: The 10th International Conference on Information Technology – ICIT2021, Al Zaytoonah University of Jordan – Jordan, 14-15 July 2021
10.	2021/2022	Member of the culture, Social and Sports Activities Committee
11.	2022	Thesis Examiner: Afaf Mahmoud Al Sous, Master Degree “Distributions of Entropies from Nakagami Distribution sample”, Al Zaytoonah University, Jordan
12.	2023	Technical program Committee: The 11th International Conference on Information Technology – ICIT2021, Al Zaytoonah University of Jordan – Jordan, 10-11 August 2023
13.	2024/2025	Member of the culture, Social and Sports Activities Committee, member of graduated studies committee.
14.	2025/2026	Member of the culture, Social and Sports Activities Committee, member of graduated studies committee.

### 12. Publications

1. Almeflah, H., Almomani, A., Almomani, R., **Dababneh, A.** Estimations of classical solution of quasi-inverse problem//International Journal of Applied Mathematics Open source preview, 2025, 38(2S), pp. 635–646.



2. **Dababneh, A.**, Al-Khawaldeh, H.O., Jebril, I.H., Batiha, I.M., Momani, S. Fractional Bernoulli Equation with Ujlayan-Dixit operator//Proceeding 12th International Conference on Information Technology Innovation Technologies ICIT 2025, Open source preview, 2025, pp. 173–176
3. Multistability, Chaos, and Synchronization in Novel Symmetric Difference Equation. Almatroud, O.A. Abu Hammad, **Dababneh, A.** Khennaoui, A.A. Alshammari, S. Symmetry, 2024, 16(8), 1093.
4. On New Symmetric Fractional Discrete-Time Systems: Chaos, Complexity, and Control, Hammad, M.A. Diabi, L. **Dababneh, A.** Ouannas, A. Hiuoual, A. Symmetry, 2024, 16(7), 840
5. Rasem, S., **Dababneh, A.**, Hammad, M.'A. Applications of Conformable Fractional Weibull Distribution//Springer Proceedings in Mathematics and Statistics Open source preview, 2023, 418, pp. 139–147
6. Aloudat, A., Al-Sha'Ar, F.S., Al-Qawaqneh, H., **Dababneh, A.** "The Bernstein Expansion for Rational Differentiable Functions in Newton Divided Differences Form", // 2023 International Conference on Information Technology: Cybersecurity Challenges for Sustainable Cities, ICIT 2023 - Proceeding, 2023, pp. 719–723
7. Alshorm, S., Batiha, I.M., Jebril, I., **Dababneh, A.** "Handling Systems of Incommensurate Fractional Order Equations Using Improved Fractional Euler Method", // 2023 International Conference on Information Technology: Cybersecurity Challenges for Sustainable Cities, ICIT 2023 - Proceeding, 2023, pp. 657–660
8. **Amer Dababneh**, Nouredine Djenina, Adel Ouannas, Giuseppe Grassi, Iqbal M. Batiha and Iqbal H. Jebril, "A New Incommensurate Fractional-Order Discrete COVID-19 Model with Vaccinated Individuals Compartment", // Fractal Fract. 2022, 6(8),456.
9. Iqbal M. Batiha, Suhaib A. Njadat, Radwan M. Batyha, Amjed Zraiqat, **Amer Dababneh** and Shaher Momani. "Design Fractional-order PID Controllers for Single-Joint Robot Arm Model", // int. J. Advance Soft Compu. Appl., Vol. 14, No. 2, July 2022
10. Ma'mon Abu Hammad, Iqbal H. Jebril, Iqbal M. Batiha and **Amer Dababneh**, "Fractional Frobenius Series Solution of Confluent - Hypergeometric Differential equation. // Progress in Fractional Differentiation and applications", 2022, 8(2).



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11. **Amer Dababneh**, Amjed Zraiqat, 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., 2021, Vol,11, 6, 6910-6922.
12. **A. Dababneh**, M. Abu Hammad, A. Zraiqat, B., Albarmawi, S.A Abrika. "Conformable Fractional of Euler Type Equation", // 2021 International Conference on Information Technology (ICIT), 19-20.
13. **Amer Dababneh**, Amjed Zraiqat, B. Sami, Ma'mon Abu Hammad, "A New Impulsive Sequential Multi-Orders Fractional Differential Equation Involving Multipoint Fractional Integral Boundary Conditions", // J. Math. Comput. Sci., 2020, Vol,10, 6, 2871-2890.
14. Ma'mon Abu Hammad, Bilal Albarmawi, A. Shmasneh, **Amer Dababneh**, "Fractional Laguerre Equation and Fractional Laguerre Polynomials", //J. Semigroup Theory Appl. 2019, 2019:5.
15. **Amer Dababneh**, Bilal Albarmawi, Ma'mon Abu Hammad, Amjed Zraiqat, Tareq Hamadneh. "Conformable Fractional Bernoulli Differential Equation with Applications", //2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT).
16. Hassan Al-Zoubi, **Amer Dababneh** and Mutaz Al-Sabbagh. "Ruled surfaces of finite II-Type", // Wseas Transaction On Mathematics Vol. 17, 2018, 1-5.
17. Zraiqat A., **Dababneh A.** "Study of Development of Cracks under Compressive Stresses", // Applied Mathematical Sciences, Vol.7,2013, no.33,1611-1622. HIKARI Ltd, [www.m-hikari.com](http://www.m-hikari.com).
18. Podlipenko, Yu K., and **A. Dababneh**, "The Minimax Estimation of Solutions of Boundary-Value Problems of Filtration in Multicomponent Schistous Media by Incomplete Data." Journal of Mathematical Sciences 109.4 (2002): 1753-1767.
19. **Dababneh A.**, "Minimax estimation of solutions right-hand sides of elliptic equations with discontinuous coefficients under incomplete data", // abstract of the international research conference Actual problems of the development of transport systems", Belarussian State university of transport, Gomel,2001.-p.298-300.
20. **Dababneh A.**, Podlipenko Yu.K. "Minimax estimation of solutions to boundary value problems of transmission for elliptic equations from point



observations”. //abstract of the international conference prediction and decision making under uncertainties (PDMU -2001), Kiev, September 11-14,2001.-p35-36.

21. **Dababneh A.**, “Minimax estimation of right-hand sides of the second order elliptic partial differential equations with discontinuous coefficients under incomplete data. //abstract of the international conference Modeling and optimization of complex systems”, Kiev national university, Kiev, January 25-28, 2001. Vol.3- p.28-29.
22. **Dababneh A.**, “Minimax estimation of solutions to elliptic boundary value problems with discontinuous coefficients”, // abstracts of fifth Crimean International mathematical school Method of Lyapunov functions, Crimea, Alushta -September 5-13, 2000.-p.65
23. **Dababneh A.** “Minimax estimation of solutions of transmission problems for elliptic equations under incomplete data”. // Bulletin of the University of Kiev. Series: Physics and Mathematics Sciences, Issue No1,2000.-p.235-241.
24. **Dababneh A.**, Podlipenko Yu.K., “Minimax estimation of solutions of filtration problems in multilayered mediums under incomplete data”. // Journal of Computational and Applied Mathematics, No 84(1999), 1753-1768.
25. **Dababneh A.**, Podlipenko Yu.K. “Minimax estimation of right-hand sides of elliptic partial differential equations with discontinuous coefficients under incomplete data”. //Journal of Computational and Applied Mathematics, No 83(1998), p.3726 - 3732.