

CURRICULUM VITAE

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1. Personal Data

Date of Birth: 1st 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 right-hand sides and solutions of elliptic partial differential equations with discontinuous coefficients under incomplete data’

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

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



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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

- Oct 2016- Present* : Assistant Professor, Department of Mathematics
Faculty of Sciences and IT
Al Zaytoonah University of Jordan, Amman, Jordan
- Oct 2011-30th 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.

6. Scholarships

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

7. Teaching Experience

- 1- Calculus 1
- 2- Calculus 2
- 3- Calculus 3
- 4- Advanced calculus
- 5- Mathematics for computer science



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- 6- Ordinary differential equations
- 7- Partial differential equations
- 8- Applied mathematics
- 9- Vector analysis
- 10- Numerical analysis
- 11- Linear Algebra
- 12- Integral equations
- 13- Special topics in Mathematics.
- 14- Laplace Transform.
- 15- Applied mathematics (Master degree)

9. **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

10. **Publications**

1. *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

2. *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

3. *Podlipenko Yu.K.. . Dababneh A.*



Minimax estimation of solutions of transmission problems for elliptic equations under absence of information about conjugation conditions.

//journal of Automation and Information Sciences. 2000, Vol.32, No 12,43-59

4. 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.

5. Dababneh A.

Minimax estimation of solutions to elliptic boundary value problems with discontinuous coefficients. // abstracts of fifth Crimean International mathematical school Method of Lyapounov functions ,Crimea, Alushta - September 5-13,2000.-p.65

6. 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.

7. 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.

8. 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.

9. 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.



10. *Hassan Al-Zoubi , Amer Dababneh and Mutaz Al-Sabbagh.*

Ruled surfaces of finite II-Type.// Wseas Transaction On Mathematics
Vol. 17, 2018, 1-5.

11. *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).

12. *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.

13. *Ma'mon Abu Hammad,, Bilal Albarmawi, A. Shmasneh, Amer Dababneh.*

LAGUERRE EQUATION AND FRACTIONAL LAGUERRE POLYNOMIALS.//J.Semigroup Theory Appl. 2019, 2019:5.

14. *Abdulkarim Farah, Amer Dababneh, Amjed Zraiqat.*

On Non-Parametric Criteria for Random Communication and Processes Relationship// International journal of advanced Science and Engineering.//
2020, Vol. 7, 2, 1675-1690.

15. *A. Dababneh, M. Abu Hammad, A. Zreqat, B. Albarmawi, S.A Abrika..*

Conformable Fractional of Euler Type Equation.// 2021 International Conference on Information Technology (ICIT), 19-20.

16. *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.



17. *Ma'mon Abu Hammad, Iqbal H.Jebril, Iqbal M.Batiha and Amer Dababneh.*

Fractional Frobenius Series Solution of Confluent α -Hypergeometric Differential equation. // *Progress in Fractional Differentiation and applications*, 2022, 8(2).

18. *Iqbal M.Batiha , Suhaib A. Njadat, Radwan M. Batyha, Amjed Zraiqt, 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

19. *Amer Dababneh , Nouredine Djenina , Adel Ouannas , Giuseppe Grassi, Iqbal M. Batiha and Iqbal H. Jebiril.*

A New Incommensurate Fractional-Order Discrete COVID-19 Model with Vaccinated Individuals Compartment. // *Fractal Fract.* 2022, 6(8),456.