

## 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 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 by means of linear integral operators with additive random errors of



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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 2011-30<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.

#### 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
- 6- Ordinary differential equations



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- 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.

#### 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

#### 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), p.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. p.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](http://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). (Accepted)

12. **Amer Dababneh**, Amjed Zraigat, B. sami, Ma.mon Abu hammad. A New Impulsive Sequential Multi-Orders Fractional Differential Equation Involving Multipoint Fractional Integral Boundary Conditions//Applied Mathematics & information sciences(Accepted)

13. Ma'mon Abu Hammad,, Bilal Albarmawi, A. Shmasneh, **Amer Dababneh**. LAGUERRE EQUATION AND FRACTIONAL LAGUERRE POLYNOMIALS//J.Semigroup Theory Appl. 2019, 2019:5.