

Curriculum Vitae

1. Personal Information

- Name in full: Edris Ahmed Khuzaey Rawashdeh.
- Sex: Male.
- Date of Birth: October 1, 1974.
- Place of Birth: Irbid/Jordan.
- Nationality: Jordanian.
- Marital Status: Married with three sons.

2. Current Professional Position

- Associate Professor, Dhofar University, Salalah - Sultanate of Oman. (Under the auspices of the American University of Beirut, Lebanon).

3. Official Address

- Dept. of Mathematics and Sciences, College of Arts and Applied Sciences, Dhofar University, Salalah - Sultanate of Oman.
- Phone: (00968)-23225061 Ext. 311 (Office).
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- Fax: (00968)-23226059.
- Mobile: (00968)-98817059.

4. Academic Qualifications

- Ph.D., 2002, Department of Mathematics, Central Michigan University, U. S. A.
 - (i) Degree Specialization: Applied Mathematics.
 - (ii) Title of Ph.D. Dissertation: Numerical Solutions, Stability Criteria and Applications of Integro-Differential Equations.
 - (iii) Thesis Advisor: Dr. Leela Rakesh.
- M.Sc., 1998, Department of Mathematics, Yarmouk University, Jordan.
 - (i) Degree Specialization: Functional Analysis.
 - (ii) Title of M.Sc. Thesis: Weighted Inequalities for the Geometric Means.
 - (iii) Thesis Advisor: Abdulla Moh'd Al-Jarrah.
- B.Sc., 1996, Department of Mathematics, Yarmouk University, Jordan.

5. Languages

Arabic (Native) and English.

6. Employment

- September 2009-Present, Associate Professor (Sabbatical Leave from Yarmouk University), Dhofar University, Sultanate of Oman.
- September 2007-September 2009, Chairperson of Mathematics Department, Yarmouk University, Jordan.
- April 2007-September 2009, Associate Professor, Department of Mathematics, Yarmouk University, Jordan.
- January 2003-April 2007, Assistant Professor, Department of Mathematics, Yarmouk University, Jordan.

- May 2001-December 2002, Teaching Assistant, Department of Mathematics, Central Michigan University, U. S. A.
- August 1999-May 2001, Fellowship, Department of Mathematics, Central Michigan University, U. S. A.
- September 1998-August 1999, Part-Time Instructor, Department of Mathematics, Jordan University of Science and Technology, Jordan.
- August 1996-January 1998, Teaching Assistant, Department of Mathematics, Yarmouk University, Jordan.

7. Research Interests

- Numerical Analysis, Fractional Calculus, Integral Equations, Differential and Integral-Algebraic Equations, and Graph Theory.

8. Courses Taught at University Level

1. Dhofar University September 2009-Present

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|-------------|--------------------------|---------------|
| 1. Math 210 | Differential Equations I | B. Sc. level. |
| 2. Math 320 | Linear Algebra I | B. Sc. level. |
| 3. Math 360 | Linear Algebra II | B. Sc. level. |
| 4. Math 370 | Discrete Mathematics | B. Sc. level. |

2. Yarmouk University 2003-2009

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|-------------|--|---------------|
| 1. Math 101 | Calculus I | B. Sc. level. |
| 2. Math 102 | Calculus II | B. Sc. level. |
| 3. Math 203 | Ordinary Differential Equations | B. Sc. level. |
| 4. Math 204 | Special Functions and Fourier Analysis | B. Sc. level. |
| 5. Math 241 | Linear Algebra | B. Sc. level. |
| 6. Math 251 | Set Theory | B. Sc. level. |
| 7. Math 301 | Partial Differential Equations (1) | B. Sc. level. |

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| 8. Math 321 | Numerical Analysis I | B. Sc. level. |
| 9. Math 421 | Numerical Analysis II | B. Sc. level. |
| 10. Math 463 | Graph Theory | B. Sc. level. |
| 11. Math 621 | Advanced Numerical Analysis | Master level. |
3. Central Michigan University, 2001-2003
- | | | |
|-------------|---------------------------------|---------------|
| 1. Math 105 | Intermediate Algebra | B. Sc. level. |
| 2. Math 223 | Linear Algebra | B. Sc. level. |
| 3. Math 334 | Ordinary Differential Equations | B. Sc. level. |
4. Jordan University of Science and Technology, 1998-1999
- | | | |
|-------------|---------------------------------|---------------|
| 1. Math 101 | Calculus I | B. Sc. level. |
| 2. Math 102 | Calculus II | B. Sc. level. |
| 3. Math 203 | Ordinary Differential Equations | B. Sc. level. |
5. Mathematics Courses Coordination
1. I was a coordinator of Calculus courses (Math. 101 and Math. 102) for several times.
 2. I was a coordinator of applied mathematics courses (Math. 203, 204, 241, 301, 321, 421) for several times.

9. Academic Honors and Awards

- A scholarship from Minister of Higher Education (Jordan) to get a B.Sc. Degree in Mathematics from Yarmouk University (1992-1996).
- A scholarship from Yarmouk University to get a Ph.D. Degree in Mathematics from Central Michigan University (1999-2002).
- A scholarship from University of Waterloo (Canada) to get a Ph.D. Degree in Applied Mathematics (1999). (I declined the offer).
- An Honor Certificate and a Prize form Yarmouk University for graduating the first in B.Sc. in the whole year of my graduation in Mathematics Department (1996).

- An Honor Certificate and a Prize form Yarmouk University for graduating the first in M.Sc. in the whole year of my graduation in Mathematics Department (1998).
- A Certificate of Recognition from the Mathematics Department at Central Michigan University for being an outstanding graduate student in the academic year 2001-2002.

10. Committee Service

- Graduate Study Committee in the Department of Mathematics at Yarmouk University.
- Scholarship and Appointment Committee in the Department of Mathematics at Yarmouk University.
- Comprehensive Exam Committee in the Department of Mathematics at Yarmouk University.
- Seminars Committee in the Department of Mathematics at Yarmouk University.
- Libraries and Computer Committee in the Department of Mathematics at Yarmouk University.

11. Supervision of Grad. Students

- M. Sc. Students
1. Isam Al-Darabsah: Integral Equations with Delay Arguments, August 13, 2009.
 2. Bellour Azzeddine: Numerical Solutions of Semi-Explicit Linear Integral-Algebraic Equations, July 15, 2009.
 3. Ziad Bader Khader Al-Bawwab: Hadamard Finite-Part Integrals, May 6, 2009.
 4. Heba Mohammad Al-Aish: Numerical Solutions of Fractional Diffusion Equations, July 17, 2008.

5. Khaled Ahmmad Tanash: Solutions of Systems of Fractional Differential Equations, January 2, 2008.
 6. Mohammed "Husein Ibrahim" Hamarsheh: Numerical Solutions of Semidifferential Equations, May 8, 2007.
 7. Mohammad Fawaz Al-Jamal: Numerical Solutions of Fractional Integro-Differential Equations, July 18, 2006.
- Member in the examining committee for many Ph.D. and M.Sc. students.

12. Membership in Professional Organizations

- Mathematical Association of America, (2000-2003).
- Research group in applied mathematics, Jordan, (2005-present).

13. Computer Skills

- Mathematical Software: Maple, Matlab.
- Operating System: Windows .
- Typesetting Software: Latex, Scientific Workplace, Microsoft Office.
- ICDL: International Computer Drive License.

14. Conferences and Workshops

- I have participated in the First Petra International Conference on Mathematics by giving a talk entitled " Solution of integral-algebraic equations of index 1 by Adomian method", held at Al-Hussein Bin Talal University in Ma'an-Jordan in the period October 24-25, 2007.
- I have participated in the SIAM Meeting by giving a talk entitled " Stability of Volterra Integro-Differential Equations", held at Philadelphia, USA in the period July 6-11, 2002.

15. List of Published papers

- [1] M. H. Hamarsheh, E. A. Rawashdeh, **(2010)**. A Numerical Method for Solution of Semidifferential Equations. *Matematicki Vesnik*, 62 (2), 117-126.
- [2] Rawashdeh, E. A, Jaradat H. M., Fadi Awawdeh, **(2009)**. Homotopy Analysis Method for Delay-Integro-Differential Equations. *JJMS*, 2: 15-23.
- [3] Al-Jamal, M. F., Rawashdeh, E. A. **(2009)**. The Approximate Solution of Fractional Integro-Differential equations. *Int. Journal of Contemp. Math. Sciences*, 4: 1067-1078.
- [4] Rawashdeh, E. A. **(2007)**. An Algorithm for the Numerical solution of Fractional Integro-Differential Equations. *Mu'tah Lil-Buhuth wad-Dirasat.*, 22: 25-35.
- [5] Al-Momani, G. M. and Rawashdeh, E. A. **(2006)**. Numerical Solution of Fractional Integro-Differential Equations by Discretized Collocation Method. *International Journal of Applied Mathematics*, 19: 65-74.
- [6] Rawashdeh, E. A. **(2006)**. Numerical Solution of Fractional Integro-Differential Equations by Collocation Method. *Applied Mathematics and Computation*, 176: 1-6.
- [7] Rawashdeh, E. A. **(2006)**. Numerical Solution of Semidifferential Equations by Collocation Method. *Applied Mathematics and Computation* 174: 869-876.
- [8] Rawashdeh, E. A. and Jaradat, M. M. M. **(2005)**. The Basis Number of the Semi-Composition Product of Some Graphs II. *International Journal of Pure and Applied Mathematics*, 23: 401-409.
- [9] Jaradat, M. M. M. Rawashdeh, E. A. and Alzoubi, M. Y. **(2005)**. The Basis Number of the Semi-Composition Product of Some Graphs I. *Turk. J. Math.* 29: 349-364.
- [10] Jaradat, M. M. M. Alzoubi, M. Y. and Rawashdeh, E. A. **(2004)**. The Basis Number of the Lexicographic Product of Different Ladders. *SUT Journal of Mathematics*, 40: 91-101.

- [11] Edris Rawashdeh, David Mcdowell, and Leela Rakesh. **(2005)**. The Stability of Collocation Methods for Higher-Order Volterra Integro-Differential Equations. IJMMS, 2005: 3075-3089.
- [12] Edris Rawashdeh, David Mcdowell, and Leela Rakesh. **(2005)**. The Stability of Collocation Methods for Vides of Second Order. IJMMS, 2005: 1049-1066.
- [13] Edris Rawashdeh, David Mcdowell, and Leela Rakesh. **(2004)**. Polynomial Spline Collocation Methods for Second-Order Volterra Integro-differential Equations. IJMMS, 2004: 3011-3022.

16. List of Submitted Papers

- [1] On Volteera's Population Growth Models.
- [2] Analytic Solution of Fractional Integro-Differential equations.
- [3] On a Numerical Scheme for Solving Multi-Order Fractional Differential Equations. (Accepted).
- [4] Collocation Method for Fractional Integro-Differential Equations.

17. Research Projects

I am currently working on the numerical solution of third kind integral equations.

18. References

(1) Professor Mashhoor A. Al-Refai, Vice President, Yarmouk University, **Irbid-Jordan**.

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E-mail: mrefai@yu.edu.jo

(2) Professor Leela Rakesh, Department of Mathematics, Central Michigan University, **Mount Pleasant, MI 48858, U.S.A.**

Tel: 989-774-6524.

E-mail: LRakesh@aol.com

(3) Professor Edwin Louis Woerner, Chairperson, Dept. of Mathematics and Sciences, Dhofar University, **Salalah - Sultanate of Oman**.

Tel: 00968-99837759.

E-mail: edwin_woerner@du.edu.om

(4) Professor Abdulla Moh'd Al-Jarrah, Department of Mathematics, Yarmouk University, **Irbid-Jordan**.

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(5) Professor Dr. Mowaffaq Hajja, Department of Mathematics, Yarmouk University, **Irbid-Jordan**.

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E-mail: mhajja@yu.edu.jo

(6) Professor Ali Ahmad Fora, Department of Mathematics, Yarmouk University, **Irbid-Jordan**.

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