



Ali M. H. Ateiwi C.V.



## CURRICULUM VITAE

**Ali Mahmud Hamad Ateiwi**

January - 2026



### PERSONAL

**Place of Birth** Jordan  
**Date of Birth** August 19, 1964  
**Marital Status** Married  
**Nationality** Jordanian  
**Work Address** Department of Mathematics, College of Science, Al-Hussein Bin Talal University, Ma'an, Jordan. Phone: +962-3-2179000 Ext.:xxxx, E-mail: [ateiwi@ahu.edu.jo](mailto:ateiwi@ahu.edu.jo)  
**Academic Rank (date)** Professor (2009)  
**Permanent Address** Amman, Jordan. Cell Phone: +962-795847613, E-mail: [ateiwi@hotmail.com](mailto:ateiwi@hotmail.com)

### ACADEMIC QUALIFICATIONS

1993 – 1997 **Ph.D.**, Differential Equations, National Academy of Sciences of the Ukraine, Kiev, Ukraine  
1983 – 1988 **B.Sc.**, Mathematics, The University of Baghdad, Baghdad, Iraq

### SPECIALTY

**General Specialization:** Mathematics  
**Specialization :** Differential Equations

### CAREER HISTORY

September 2009 – present **Professor**, Department of Mathematics, College of Science, Al-Hussein Bin Talal University, Ma'an, Jordan.



October 2003 - September 2009	Associate Professor of Mathematics, Department of Mathematics , college of Science, Al–Hussein Bin Talal University, Ma’an – Jordan..
September 1998 – October 2003	Assistant Professor of Mathematics. Department of Mathematics , college of Science, Al–Hussein Bin Talal University, Ma’an – Jordan.

## ADMINISTRATIVE EXPERIENCE

### *Positions*

September 2008- September 2010	<b>Dean of the College of Science</b> , Al-Hussein Bin Talal University, Ma'an, Jordan
February 2002 - August 2003	Vice Dean of the College of Science, Al-Hussein Bin Talal University, Ma'an, Jordan
February 2001 -August 2001	Chairman of Department of Mathematics, college of Science, Al–Hussein Bin Talal University, Ma'an, Jordan.
September 2003- July 2004	Chairman of Department of Mathematics, college of Science, Al–Hussein Bin Talal University ,Ma'an, Jordan.

### *Committees*

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## HONORS, SCHOLARSHIPS, AWARDS AND GRANTS

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- 2009-present      Editor for Advances in Natural and Applied Sciences (ANAS)[ISSN 1995-0772], (from 1/1/ 2009-present). ANAS is an international scientific journal edited and published by the American-Eurasian Network for Scientific Information (AENSI), Jordan and Pakistan. It is a peer reviewed journal which has been accepted by CABI, Ulrich's Periodicals Directory, Directory of Open Access Journals, Open J-Gate, Index Copernicus, Electronic Journals Library, EBSCO, U.S.A. Thomson Reuters , USA, Thomson Gale, USA ,<http://www.aensi.org/anas.html>.
- Member of the Jordanian Ministry of Higher education committee for accreditation of non – Jordanian, Bachelor, Master and PhD certificates.
- Member in the scientific Research fund/ Basic science section/ Ministry of research of higher education and scientific research, Jordan.

## PROFESSIONAL MEMBERSHIPS AND SERVICES

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### *Membership(s)*

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### *Service(s)*

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## RESEARCH INTEREST

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- Ordinary Differential Equations.
- Difference Equations.
- Partial Differential Equations.
- Stochastic Differential Equations.



## RESEARCH PAPER

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- Ahmad Alhabahbeh, Ma'mon Abu Hammad, Oualid Zentar, Mohamed Ziane, Shameseddin Alshorm, Ali Ateiwi.(2025)  $\Phi$ -Hilfer Proportional Fractional Differential System: Uniqueness and Stability Result. *Nonlinear Dynamics & Systems Theory*. 25(1), 13–26 (2025).
- Dana Jaraden, Ali Ateiwi, Jehad Jaraden.(2025) The influence of c-subnormality subgroups on the structure of finite groups. *Georgian Mathematical Journal* . 32(1), 77-82, 2025.
- A.A. Alhabahbeh, and Ali Ateiwi.(2023) “A Novel Approach for Solving Systems Boundary Value Problems”, *International Journal of Difference Equations (IJDE)*, ISSN 0973-6069 Volume 18, Number 2 (2023), pp. 309-330
- A. Ale'damat, A. Alrawajfi, A. Talafha, A. Alhabahbeh, A. Ateiwi (2020) Numerical simulation of nonlinear fractional integrodifferential equations of Volterra type via power series expansion. *Italian Journal of Pure and Applied Mathematics*. No.43, PP.944 – 957.
- A. Ateiwi, A. Al 'edamat, A. Freihat and I. Komashynska.(2019) "Approximation Scheme for Handling Coupled Systems of Differential Equations within Reproducing Kernel Method" *Filomat Journal*. Vol.33, No.2 (2019).
- Z. Altawallbeh M. Al-Smadi, I. Komashynska and A . Ateiwi (2018) " Numerical Solutions of Fractional System, Two- point BVPS using Iterative Reproducig Kernel Algorithm" *Ukrainian Mathematical Journal*. Vol.70(5), PP.599 - 610 .
- A. Al e'damat, M. Al-Smadi, I. Komashynska, **A. M. Ateiwi** and A. Alrawajfi, (2016) "Analytical-Numerical Solutions for First- Order Periodic Boundary Value Problems Using the Reproducing Kernel Algorithm".*Differential and Difference Equations with Applications Springer Proceedings in Mathematics & Statistics* 164, DOI 10.1007/978-3-319-32857-7\_2, PP. 9 – 23.
- I.V. Komashynska, M. Al-Smadi, **A.M. Ateiwi** and S. A. Al- Obaidy, (2016) "Aproximate Analytic Solutions by the Residual Power Series Method of the System



of Fredholm Integral Equations", Applied Mathematics & Information Sciences. Vol. 10 (3), PP. 975- 985. ( USA ).

- I.V. Komashynska, M. Al-Smadi and **A.M. Ateiwi** and A. Al e'damat, (2016) "An oscillation of the solution for nonlinear second-order stochastic differential equation". Journal of computational analysis and applications. Vol. 20(5), PP. 860 - 868.
- Ghaleb Gumah, Zuhier Altawallbeh, Ayed Al e'damat, and **A. M. Ateiwi** (2014) "An Alternative Proof of the Spectral Radius Inequality for Products of Hilbert Space Operators" Australian Journal of Basic and Applied Sciences.Vol. 8(18) December, PP.462 – 465. (Pakistan ).
- I.V. Komashynska, M. Al-Smadi, A. Al-Hababbeh and **A.M Ateiwi** (2014) Analytical Approximate Solutions of Systems of Multi- pantograph Delay Differential Equations Using Residual Power- series Method. Australian Journal of Basic and Applied Sciences.Vol.8(10) July, PP.664-675 (Pakistan ).
- I.V. Komashynska and **A.M. Ateiwi**. (2014) Asymptotic Equivalence of systems of difference equations with unbounded solutions. Journal of computational analysis and applications. Vol.17, No.1. PP.31-39. ( USA ).
- **A.M.Ateiwi** and I.V. Komashynska.(2012) Asymptotic Equivalence Of Exponentially Dichotomic Systems. Global journal of Pure and Applied Mathematics.Vol.8, No.2, PP.241-250.(India).
- I.V. Komashynska and **A.M. Ateiwi**.(2010) Optimal Control of Nonlinear Systems with Quadratic Quality Criterium. International Journal of Applied Mathematics.Vol.23, No.4, PP.693-702. (Bulgaria).
- I.V. Komashynska and **A.M. Ateiwi**.,(2009) On the Limit Behavior of Degenerate Parabolic Equations. The Southeast Asian Bulletin of Mathematics. Vol.33, No.4, PP.751-755. ( China ).
- **A.M. Ateiwi**.,(2008), Dissipativity of the Systems of Differential Equations with Stochastic Impulse Action. International Journal of Applied Mathematics. Vol.21, No.1, PP.73-81.
- **A.M. Ateiwi**.,(2007), On Reducibility of Linear Difference Systems . Le Matematiche. Vol.LX11, Fasc.1, PP.41-46. (Italy).
- **A.M. Ateiwi** and I.V. Komashynska.,(2006), The Existence and Unbounded Extension of the Solutions of the Systems with Stochastic Impulse Action. Journal of Mathematics and Statistics. Vol.2, No.4, PP.460-463. (USA).
- **A.M. Ateiwi**, S.A. Al-Obaidy and I.V. Komashynska.,(2006), Discrimination and Classification Levels of Students as Per their Major Specialization. Journal of Applied Sciences. Vol.6, No.8, PP.1845-1853. (Pakistan).
- I.V. Komashynska and **A.M. Ateiwi**.,(2006), On Asymptotic Equivalence of Systems of Difference Equations. First Conference on Mathematical Sciences. Zarqa Private University. April 18-20, PP.213-216.( Jordan ).ISSN:1818-8532.



- **A.M. Samoilenko, O.M. Stanzhyts'kyj and A.M. Ateiwi.**, (2005), On Invariant Tori for a Stochastic Ito System. Journal of Dynamics and Differential Equations. Vol.17, No.4, PP.737-758.
- **I.V. Komashynska and A.M. Ateiwi.**, (2005), About Oscillatory Behavior of Solutions when Passing from Difference to Differential Equations. Demonstratio Mathematica. Vol.XXXV111, No.4, PP.867-874.( Poland ).
- **I.V. Komashynska and A.M. Ateiwi.**, (2004), On Preservation of Stability under Transition from Difference to Differential Equations. International Journal of Applied Mathematics. Vol.15, No.2, PP.129-135. (Bulgaria).
- **A.M. Ateiwi.**, (2004), A Study of Dichotomy of Linear Systems of Difference Equations Using the Quadratic Forms. Journal of Fractional Calculus. Vol.25, May, PP.93-100. (Japan).
- **A.N. Stanzhytsky and A.M. Ateiwi.**,(2003), On Averaging Difference Equations on an Infinite Interval. Nonlinear Oscillations. Vol.6, No.4, PP.525-529.( Ukraine).
- **A.M. Ateiwi and I.V. Komashynska.**,(2002), On Preservation of an Invariant Set of Discrete System Under Small Perturbations. J. of Inst of Math. & Comp. Sci. (Math. Ser). Vol.15, No.2, PP.85-90, (India).
- **A.M. Ateiwi.**, (2002), About Bounded Solutions of Linear Stochastic ITO Systems. Mathematical Notes, Miskolc. Vol.3, No.1, PP.3-12.
- **A.M. Ateiwi.**,(2000), On Dichotomy of Linear Systems of Difference Equations. Nonlinear Oscillations. Vol.3, No.4, PP.435-441,( Ukraine ).
- **A.M. Ateiwi.**,(1998), On Periodic Solutions of System of Difference Equations. Reports of NAS of Ukraine. No.1, PP.7-11.( Ukraine ).
- **A.M. Ateiwi.**, (1997), To the Problem on Periodic Solutions of One Class of Systems of Difference Equations. Ukrainian Mathematical Journal. Vol.49, No.2, PP.309-314. (Ukraine).
- **A.M.Ateiwi.**,(1996), Construction of Periodic Solutions for a Certain Class of Systems of Difference Equations. Nonlinear Boundary –Value Problem of Mathematical Physics and their Applications: Collection of Scientific Works. Kiev: Institute of Mathematics of NAS of Ukraine. PP.18-22. (Ukraine).
- **A.M. Ateiwi.**, (1996), On Numerical – Analytical Method for Second Order Difference Equations. Ukrainian Mathematical Journal. Vol.48, No.7, PP.920-924. (Ukraine).

#### ***Books and book chapters***

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#### ***Patents***

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## CONFERENCES AND PROCEEDINGS

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**A.M. Atewi.** (2024) Investigation Solutions to some Fractional Model using Effective Computational Technique. COIA-2024 — 9th International Conference on Control and Optimization with Industrial Applications. COIA 2024, 27 – 29, August, Istanbul, Turkey.

- **A.M. Atewi.** (2022) Analytical-Numerical Solutions for linear Systems of Second order Differential Equations by using Reproducing Kernel Hilbert Space Method. 5<sup>TH</sup> International Conference on Mathematical and Related Sciences. ICMRS 2022, 27 – 30, October, Antalya, Turkey.
- **A.M. Atewi.** (2019), Approximate Solutions For Nonlinear Second Order Differential Equation By Using Reproducing Kernel Hilbert Space Method. ICRAAPAM 2019 – 6th International Conference on Recent Advances in Pure and Applied Mathematics, 12 – 15, June 2019, Istanbul, Turkey.
- **A.M. Atewi.** (2017), Analytical-Numerical Solutions For A Class Of Systems Of Differential Equations Using Reproducing Kernel Method. ICRAAPAM 2017 - International Conference on Recent Advances in Pure and Applied Mathematics, 11 – 15, March 2017, Izmir, Turkey.
- **A.M. Atewi.** (2014), On the Residual Power Series Method for Solving System of Fredholm Integral Equations. ICAAMMP 2014 International Conference on Advances in Applied Mathematics and Mathematical Physics 19 – 21 Aug. 2014 Istanbul, Turkey.
- **A.M. Atewi.** (2013), Asymptotic behaviour of solution of Nonlinear Difference Equations. International mathematical conference. " Bogolyubov readings DIF- 2013 Differential equations, theory of functions and their applications " On the occasion of the 75th anniversary of academician A.M. Samoilenko. June 23 – 30, 2013 Sevastopol, UKRAINE. P.31.
- **A.M. Atewi,** (2012), Asymptotic behavior of a weakly nonlinear Systems of Differential Equations. The Fourth International Conference on Mathematical Sciences. (March 11 – 14). (Department of Mathematical Sciences, Al Ain, United Arab Emirates University).





- **A.M. Ateiwi**, (2010), Investigation Optimal Control of Nonlinear Systems with Quadratic Quality Criterium. The 6-th International Conference. Dynamical Systems and Applications.(July 10-14) P.6. (Antalya –Turkey).
- **A.M. Ateiwi**, (2008), Solutions of the Systems of Differential Equations with Random Hand Side. The Third International Conference on Mathematical Sciences. (March 3 – 6). (Department of Mathematical Sciences, Al Ain, United Arab Emirates University). (UAE).
- **A.M. Ateiwi.**, (2007), On System with Stochastic Impulse Action. Petra International Conference on Mathematics. (October 24-25), Department of Math & Stat, Faculty of Sciences, Al-Hussein Bin Talal University). (Ma'an - Jordan). P.7.
- **A.M. Ateiwi** and I.V. Komashynska.,(2007), On Properties of Systems of Linear Difference Equations. (Fifteenth International Conference of forum for Interdisciplinary Mathematics, (Interdisciplinary Mathematical & Statistical Techniques).( May 20-23 ),( Shanghai – China ).P.26.
- I.V. Komashynska and **A.M. Ateiwi.**, (2006), On Asymptotic Equivalence of Systems of Difference Equations. First Conference on Mathematical Sciences. Zarqa Private University. (April 18-20). PP.213-216. (Jordan).ISSN:1818-8532.
- **A.M. Ateiwi** and I.V. Komashynska.,(2004), Investigation the Solution of Difference Equation when Passing to Differential Equations. The First Arab Conference in Mathematics, (6-8 October ), Mathematics Department, Faculty of Basic Sciences, Applied Sciences Private University Amman – 11931, Jordan. PP.55-56.
- **A.M. Ateiwi.** (2002), Global attractor of parabolic equation with impulse Theory of Evolution Equations. International Conference Fifth Bogolyubov's reading (May 22-24), Kamyans- Podilskyy – Ukraine ) Abstracts of reports. P.80.
- **A.M. Ateiwi.**,(1999), The 3rd Forum of Abdel – Hamid Showman's prize winners, Hashmite University, Zarqa – Jordan, 27/11/1999.
- **A.M. Ateiwi.**, (1997), Finding of approximation periodic solutions of Systems of difference equations. Modeling and Investigations of Systems Stability. International Conference – Kiev University, P.5.





- **A.M. Atewi.**, (1996), Numerical – analytical method in second order difference equations. All – Ukrainian Conference. “ Differential – functional equations and their applications” ( Chernovtsi, May 15-18 ) Abstracts. Institute of mathematics of the Ukrainian National of Academy of Sciences, Kiev – Ukraine, P. 77.

## TEACHING

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### *Courses Taught-undergraduate*

- Calculus (1).
- Calculus (2).
- Calculus (3).
- Calculus (4).
- Advanced Calculus
- Ordinary Differential Equations (1).
- Ordinary Differential Equations (2).
- Partial Differential Equations.
- Principle of Applied Mathematics.
- Special Topics of Differential Equations.
- Operations Research.
- Numerical Analysis.
- Methods of Mathematics.
- Numbers Theory.
- General Mathematics.
- Fundamental of Mathematics.
- System of Decimal Numbers.
- Principles of Mathematics.
- Foundation of Mathematics.
- Educational Statistics.
- Mathematics Education.

### *Courses Taught-postgraduate*

- Theory of Differential Equations (1).
- Partial Differential Equations (1).

## SKILLS

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### *Languages*

- Arabic (native).
- English(good)
- Russian (good).

### *Computer Programs*



Ali M. H. Atewi C.V.



- ICDL.