

Date 12/10/2021

MOHAMMAD HUSSEIN SALEM ALAROUD



### PERSONAL INFORMATION

Title: Faculty member

Academic Rank: Assistant Professor

Date & Place of Birth: Irbid - Jordan. 14/ 7/1985

Nationality :Jordanian

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### ACADEMIC QUALIFICATIONS

Degree	Major	Duration (From-To)	University	Country
Ph.D.	Applied Mathematics	2016-2019	University Kebangsaan Malaysia	Malaysia
M.Sc.	Mathematics	2015-2016	University Kebangsaan Malaysia	Malaysia
M.Sc.	Measurement and Evaluation	2008- 2010	Yarmouk University	Jordan
BSc	Mathematics	2003- 2007	Yarmouk University	Jordan

## TEACHING EXPERIENCE

Duration	Rank	Institution	Department/Faculty	Country
10/2020-Present	Assistant Prof.	Amman Arab University	Department of Human & Scientific Basic Courses	Jordan
9/2019- 6/2020	Assistant Prof.(Part time)	Jordan University of Science and Technology	Department of Mathematics & statistics	Jordan
3/2017- 8/2017	Lecturer(Part time)	Al-Balqa' Applied University /Ajloun College	Department of Applied Sciences	Jordan
9/2010- 9/2015	Lecturer	King Saud University	Department of Mathematics	Saudi Arabia
8/2007-9/2010	Teacher	Ministry of education	---	Jordan

## PUBLICATIONS

### JOURNALS

Author/s (In Order)	Title	Journal	Vol./No.	Publication Date
Alaroud, M.	Application of Laplace residual power series method for approximate solutions of fractional IVP's	Alexandria Engineering Journal	DOI:10.1016/j.aej.2021.06.065	2021
Alaroud, M. and Al-Qudah, Y.,	A Novel Attractive Algorithm for Handling Systems of Fractional Partial Differential Equations	WSEAS Transactions on Mathematics	In Press	2021
Alaroud, M., Al-Smadi, M., Rozita Ahmad, R. & Salma Din, U. K.	An analytical numerical method for solving fuzzy fractional Volterra integro-differential equations.	Symmetry	11(2)	2019
Alaroud, M., Rozita Ahmad, R., & Salma Din, U. K.	An efficient analytical-numerical technique for handling model of fuzzy differential	Filomat	33(2)	2019

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	equations of fractional-order			
Freihet, A., Hasan, S., Alaroud, M., Al-Smadi, M., Ahmad, R. R., & Salma Din, U. K.	Toward computational algorithm for time-fractional Fokker–Planck models.	Advances in Mechanical Engineering,	11(10)	2019
Saadeh, R., Alaroud, M., Al-Smadi, M., Ahmad, R. R., & Salma Din, U. K.	Application of fractional residual power series algorithm to solve Newell–Whitehead–Segel equation of fractional order.	Symmetry	11(12)	2019
Alaroud, M., Al-Smadi, M., Ahmad, R. R., & Salma Din, U. K.	Computational optimization of residual power series algorithm for certain classes of fuzzy fractional differential equations.	International journal of differential Equations	2018	2018
Selvachandran, G., Garg, H., Alaroud, M. H., & Salleh, A. R.	Similarity measure of complex vague soft sets and its application to pattern recognition.	International Journal of Fuzzy Systems	20(6)	2018

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Aloroud, M. H.	Analytical Treatment for Solving System of Fuzzy IVPs Using Residual Power Series Approach.	International Mathematical Forum	12(14)	2017
Aloroud, M. H.	Analytical Solutions for Systems of Fredholm IDEs by Using Modified Taylor's Optimization.	International Journal of Mathematical Analysis	11(15)	2017

**Conferences**

Author/s (In Order)	Title	Conference	Country	Date
Alaroud, M., Arqub, O. A., Edwan, R., Al-Smadi, M., & Momani, S.	Solving Fuzzy Fractional IVPs of order $2\beta$ by Residual Power Series Algorithm	The 2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT)	Jordan	2019
Alaroud, M., Al-Smadi, M., Abu Arqub, O., Rozita Ahmad, R., Abu Hammad, M. M., & Momani, S.	Numerical solutions of linear time-fractional Klein-Gordon equation by using power series approach	The ICFDA'18 International Conference on Fractional Differentiation and its Applications, Amman, Jordan	Jordan	2018
Alaroud, M., Al-smadi, M., Ahmad, R. R., & Din, U. K. S.	Numerical computation of fractional Fredholm	The 14th International Symposium on Geometric Function Theory and	Malaysia	2018

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	integro-differential equation of order $2\beta$ arising in natural sciences.	Applications (GFTA 2018) Selangor, Malaysia.		
Alaroud, M., Rozita Ahmad, R., & Salma Din, U. K.	An efficient analytical-numerical technique for handling model of fuzzy differential equations of fractional-order	The fourth International Conference on Recent Advances in Pure and Applied Mathematics - ICRAPAM 2017	Turkey	2017
Alaroud, M., and Al-Qudah, Y., Qoqazeh, H, Jaradat, A.	Fractional Series Solutions of Nonlinear Fractional Differential Equations via LRPS Technique	YARMOUK MATHEMATICS CONFERENCE 2021	Jordan	2021

**UNIVERSITY COMMITTEES**

- Measurement and Evaluation Committee
- Study Plans - Amman Arab University
- Website Committee
- Scientific Research Committee
- Exam Committee

**WORKSHOPS ATTENDED**

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- Academic and Teaching staff S.O. Ps
- AAU regulations for students' Academic counseling
- Content Creation for online modules at AAU
- Guide for postgraduates degree and monitoring dissertations and thesis
- How to publish an academic paper in research journals with an impact factor.
- Strategic educational methods based on projects component and inverse learning method.
- Academic ranking and promotion, research and publication ethics.
- Reflecting the new method of blended education on the course syllabus.
- Context creation for modules objectives for achieving the output or the course outcome
- AAU research analytical statistics
- Enhancing academic staff loyalty through developing performing skills and management skills in terms of strategic planning
- AAU Academic program Quality Assurance.
- Basic in Human Recourses

### RESEARCH INTERESTS

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- Numerical Analysis.
- Mathematical Modelling.
- Differential Equations: Ordinary & Partial; Integro-differential & Integral Equations.
- Fuzzy fields in Fractional-Order Differential Equations.
- Fuzzy Analysis.

### LANGUAGES

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- Arabic: Mother tongue.
- English: Very good (Speaking, Reading and Writing).

## REFERENCES

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- **Full. Prof. Dr. Mohammed Y. Ali**

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- **Assoc. Prof. Dr. Malik S. Bataineh**

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- **Full. Prof. Dr. Mohammad Al-Smadi**

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