CURRICULUM VITAE

PERSONAL DATA

Name	Waleed Eltayeb Mohamed Ahmed
Nationality	Sudanese
Position	Associate Professor
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EDUCATION

Year	Academic Degree	Institution
2013	Ph.D. In Applied Mathematics	Faculty of Mathematical Science, University of Khartoum, Sudan.
2008	M.Sc. In Industrial and Computational Mathematics	Faculty of Mathematical Science, University of Khartoum, Sudan.
1998	B.Sc. (Honor), Joint subject in Mathematics and Computer Sciences	Faculty of Mathematical Science, University of Khartoum, Sudan

WORK EXPERIENCE

Period	Position	Address
2013 - 2014	Head of the Department of Basics and Engineering Sciences	Faculty of Engineering, University of Khartoum
2014 - 2016	Coordinator of the of the Mathematics and Statistics Department	Imam Mohammed Ibn- Saud Islamic University
2016 - 2019	Academic advisor of the Department of Mathematical and Statistics	Imam Mohammed Ibn- Saud Islamic University
2013 – now	Member of the Mathematics and Statistics Department Council	Imam Mohammed Ibn- Saud Islamic University

2019 – now	Coordinator of the of the Mathematics and Statistics Department	Imam Mohammed Ibn- Saud Islamic University

RESEARCH INTERESTS

1. Quaternions & Octonions Applications.

2. Mathematics software.

PUBLICATIONS

1. **Ahmed, W. E. (2019). Some Techniques to Compute Multiplicative Inverses for Advanced Encryption Standard. JOURNAL OF ADVANCES IN MATHEMATICS, 16, 8208-8212 .**

   https://doi.org/10.24297/jam.v16i0.8016

2. **Ahmed, W. E. (2019). A way to compute a greatest common divisor in the Galois field (GF (2^n)). JOURNAL OF ADVANCES IN MATHEMATICS, 16, 8317-8321.** https://doi.org/10.24297/jam.v16i0.8167

3. **Ahmed, W. E. (2019). On Rijndael ByteSub Transformation. Applied Mathematics, 10, 113-118.** https://doi.org/10.4236/am.2019.103010

4. **Ahmed, W. E. (2019). A modern Method for Constructing the S-Box of Advanced Encryption Standard. Applied Mathematics, 10, 234-244.**

   https://doi.org/10.4236/am.2019.104018

5. **Elzupir AO, Ahmed WE. H test for exclusion: A guide to an intervention approach to lessen the risk of aflatoxin contaminated foods in sorely contaminated regions. J Food Saf. 2019,e12692 .**

   https://doi.org/10.1111/jfs.12692

6. **Ahmed, W. E. Ninety-Six Distinct Real Matrices for Representing a Quaternion Number. Journal of Mathematics, 2020. Article ID 2412491.**

   https://doi.org/10.1155/2020/2412491

7. **Ahmed, W. E. (2021). Powers of Octonions. Applied Mathematics, 12, 75-84.**

   https://www.scirp.org/journal/am

8. **Ahmed, W. E. (2022). New Formula for Computing Quaternion Powers. Applied Mathematics, 13, 282-294.**

   https://www.scirp.org/journal/am

9. **MZ Youssef, MM Khader, I Al-Dayel, Ahmed WE. Solving Fractional Generalized Fisher–Kolmogorov–Petrovsky–Piskunov's Equation Using Compact-Finite Different Methods Together with Spectral Collocation Algorithms. Journal of Mathematics, 2022. Article ID 1901131.**

   https://doi.org/10.1155/2022/1901131