

Sadiqa Arshad

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About

Dr. Sadiqa Arshad is working as Assistant Professor in the Military College of Signals. Dr. Sadiqa Arshad has a PhD in Cryptography. Dr. Sadiqa Arshad has published 7 research articles & conference papers having a citation count of 30, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Cryptography Institute of Space Technology , Pakistan	2018 - 2023
MS in Mathematics Capital University of Science and Technology, Islamabad , Pakistan	2014 - 2016
MSc in Mathematics Quaid-i-Azam University , Pakistan	2000 - 2002
B.Tech(14 years) in Mathematics University of Peshawar , Pakistan	1994 - 1996

Experience

Assistant Professor Military College of Signals	2024- Present
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Research Articles

A Hybrid Technique for Generation of Highly Nonlinear Component Based on Elliptic Curves and Algebraic Group Structure <i>Sadiqa Arshad Majid Khan Rashid Ali</i> <i>Wireless Personal Communications</i> , Volume:138, Issue:4, Pages 2353-2370 Impact Factor: 1.900 Quartile: 3 DOI: 10.1007/s11277-024-11603-4	2024
Construction of confusion component based on the isogeny of elliptic curves <i>Sadiqa Arshad</i> <i>Multimedia Tools and Applications</i> , Volume 83, Issue 16, Pages 47735-47749 Impact Factor: 3.000 Quartile: 2 Citations: 3 DOI: 10.1007/s11042-023-17399-y	2024
Construction of nonlinear component based on bent Boolean functions <i>Sadiqa Arshad Majid Khan</i> <i>Computational and Applied Mathematics</i> , Volume 43, Issue 1, Article Number 46 Impact Factor: 2.500 Quartile: 1 Citations: 4 DOI: https://doi.org/10.1007/s40314-023-02545-x	2024
Construction of 4 × 4 Substitution Box Using Elliptic Curves and Algebraic Group Structures <i>Sadiqa Arshad</i> <i>Wireless Personal Communications</i> , Volume:131, Issue:3, Page:1913-1927 Impact Factor: 2.2 Quartile: 3 Citations: 7 DOI: 10.1007/s11277-023-10526-w	2023
New extension of data encryption standard over 128-bit key for digital images <i>Sadiqa Arshad Majid Khan</i> <i>Neural Computing and Applications</i> , Volume:33, Issue:20, Page:13845-13858 Impact Factor: 5.102 Quartile: 2 Citations: 13 DOI: https://doi.org/10.1007/s00521-021-06023-5	2021
Pauli Half Spinning and Elliptic Curve Based Information Confidentiality Mechanism <i>Sadiqa Arshad Majid Khan Iqtidar Hussain</i> <i>International Journal of Theoretical Physics</i> , Volume 60, Issue 9, Pages 3631-3650 Impact Factor: 1.308 Quartile: 4 Citations: 3 DOI: https://doi.org/10.1007/s10773-021-04900-2	2021

Conference Proceedings

Kyber-KEM-Ascon: Benchmarking a Lightweight Post-quantum KEM on IoT Devices <i>Sahar Shehzadi Nathan Whaley Ayesha Khalid Abdul Ghafoor Sadiqa Arshad Faiz Ul Islam Máire O'Neill</i> <i>Proceedings - IEEE International Symposium on Circuits and Systems</i> , res.country(231,) Citations: N/A DOI: 10.1109/ISCAS56072.2025.11043792	2025
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