

Academic Resume



Osama Rabie

Associate Professor, Information Systems Department

I am looking forward to improving the cyber infrastructure

Contact Information.

Building 31, Room 159, Ext. 52807, obrabie@kau.edu.sa.

Highest Degree.

2018, , Using Value Theory and Public Forum for Preventing Cyberterrorism, Virginia Commonwealth University (VCU), USA.

Academic and Professional Experiences.

1. **2019 - Present**
Assistant Professor, , .

Research Interests.

Semantic Technologies, Cyberterrorism, Value Theory Applications, Markov, Intrusion Detection and Prevention.

Teaching Interests.

Semantics, Research methodology, Data Science, Cyberterrorism prevention.

Certifications and Trainings.

1. Internal Auditor.
2. External Auditor.
3. IBM Cybersecurity Practitioner.

Social, Scientific and Professional Affiliation.

1. 2022-Present, Incitive manager, FCIT.

Excellence Awards and Patents.

1. 2022, Interior, Data Science Club supervision excellency, FCIT.

Funded Projects.

1. 2022, Security and Performance through Operating System Services; Development of an Anti-Hacking



System, King Abdulaziz University

Publications.

1. Osama Bassam J. Rabie, Shitharth Selvarajan, Tawfiq Hasanin, Gouse Baig Mohammed, Abddulrhman M. Alshareef, Mueen Uddin, "A Full Privacy-Preserving Distributed Batch-Based Certificate-Less Aggregate Signature Authentication Scheme For Healthcare Wearable Wireless Medical Sensor Networks (Hwmsns)", International Journal Of Information Security, 2023.
DOI: [10.1007/s10207-023-00748-1](https://doi.org/10.1007/s10207-023-00748-1)
2. Osama Bassam J. Rabie, Shitharth Selvarajan, Daniyal Alghazzawi, Abhishek Kumar, Syed Hasan, Muhammad Zubair Asghar, "A Security Model For Smart Grid Scada Systems Using Stochastic Neural Network", Iet Generation, Transmission & Distribution, 2023.
DOI: [10.1049/gtd2.12943](https://doi.org/10.1049/gtd2.12943)
3. Lamia Alhoraibi, Daniyal Alghazzawi, Reemah Alhebshi, Osama Bassam J. Rabie, "Physical Layer Authentication In Wireless Networks-Based Machine Learning Approaches", Sensors, vol: 23, pp. 1814, 2023.
DOI: [10.3390/s23041814](https://doi.org/10.3390/s23041814)
4. Mohamed Sirajudeen Yoosuf, C. Muralidharan, S. Shitharth, Mohammed Alghamdi, Mohammed Maray, Osama Bassam J. Rabie, Sweta Bhattacharya, "Fogdedupe: A Fog-Centric Deduplication Approach Using Multi-Key Homomorphic Encryption Technique", Journal Of Sensors, vol: 2022, pp. 1-16, 2022.
DOI: [10.1155/2022/6759875](https://doi.org/10.1155/2022/6759875)
5. Rabie, Osama ; Ahmad, Jawad ; Alghazzawi, Daniyal, "Modified Shark Cipher And Duffing Map-Based Cryptosystem", Mathematics, 2022.
6. Ebtihaj Alshahrani, Daniyal Alghazzawi, Reem Alotaibi, Osama Rabie, "Adversarial Attacks Against Supervised Machine Learning Based Network Intrusion Detection Systems", Plos One, vol: 17, pp. e0275971, 2022.
DOI: [10.1371/journal.pone.0275971](https://doi.org/10.1371/journal.pone.0275971)
7. Lamia Almeahadi, Abdullah Basuhail, Daniyal Alghazzawi, Osama Rabie, "Framework For Malware Triggering Using Steganography", Applied Sciences, vol: 12, pp. 8176, 2022.
DOI: [10.3390/app12168176](https://doi.org/10.3390/app12168176)
8. Pravin R. Kshirsagar, Hariprasath Manoharan, Hassan A. Alterazi, Nawaf Alhebaishi, Osama Bassam J. Rabie, S. Shitharth, Sweta Bhattacharya, "Construal Attacks On Wireless Data Storage Applications And Unraveling Using Machine Learning Algorithm", Journal Of Sensors, vol: 2022, pp. 1-13, 2022.
DOI: [10.1155/2022/9386989](https://doi.org/10.1155/2022/9386989)
9. Majda Wazzan, Daniyal Algazzawi, Aiiad Albeshri, Syed Hasan, Osama Rabie, Muhammad Zubair Asghar, "Cross Deep Learning Method For Effectively Detecting The Propagation Of Iot Botnet", Sensors, vol: 22, pp. 3895, 2022.
DOI: [10.3390/s22103895](https://doi.org/10.3390/s22103895)
10. Osama Rabie, Jawad Ahmad, Daniyal Alghazzawi, "Modified Shark Cipher And Duffing Map-Based Cryptosystem", Mathematics, vol: 10, pp. 2034, 2022.
DOI: [10.3390/math10122034](https://doi.org/10.3390/math10122034)
11. Osama Rabie, Daniyal Alghazzawi, Junaid Asghar, Furqan Khan Saddozai, Muhammad Zubair Asghar, "A Decision Support System For Diagnosing Diabetes Using Deep Neural Network", Frontiers In Public Health, vol: 10, 2022.
DOI: [10.3389/fpubh.2022.861062](https://doi.org/10.3389/fpubh.2022.861062)
12. Daniyal M. Alghazzawi, Osama Bassam J. Rabie, Surbhi Bhatia, Syed Hamid Hasan, "An Improved Optimized Model For Invisible Backdoor Attack Creation Using Steganography", Computers, Materials & Continua, vol: 72, pp. 1173-1193, 2022.
DOI: [10.32604/cmc.2022.022748](https://doi.org/10.32604/cmc.2022.022748)

Publications.

13. Adel Bessadok, Ehab Abouzinadah, Osama Rabie, "Exploring Students Digital Activities And Performances Through Their Activities Logged In Learning Management System Using Educational Data Mining Approach", Interactive Technology And Smart Education, 2021.
DOI: [10.1108/ITSE-08-2021-0148](https://doi.org/10.1108/ITSE-08-2021-0148)
14. A. Bessadok, E. Abouzinadah, O. Rabie, "Analyzing Students' Digital Behavior In An E-Learning Environment Within The Blackboard Learning Management System", 2021.
15. Abdulmohsen S. Albeshier, Osama B. Rabie, "A Survey Study On Arabic Wordnet: Baring Opportunities And Future Research Directions", International Journal Of Metadata, Semantics And Ontologies, vol: 14, pp. 290, 2020.
DOI: [10.1504/IJMSO.2020.115435](https://doi.org/10.1504/IJMSO.2020.115435)
16. Jawaher Saad Alqahtani, Mahomud Kamel, Osama Rabie, "Overview Of Markov Decision Process Applications", Multi-Knowledge Electronic Comprehensive Journal For Education And Science Publications (Mecsjs), 2019.
17. Osama Rabie, "Chitchat On The Nile About Using Similarity Measures To Evaluate Biomedical Ontology Records", Sais 2019 Proceedings, 2019.
18. Osama Rabie, Heinz Roland Weistroffer, "Ontological Semantics And Enterprise Content Management In Systems Development", Sais 2018, 2018.
19. Osama Rabie, Heinz Roland Weistroffer, "Use Of Ontologies In Information Systems Development", Workshop On E-Business, 2015, 2015.
20. Osama Rabie, Anthony F. Norcio, "Discussion Of Some Challenges Concerning Biomedical Ontologies", Human-Computer Interaction. Applications And Services. Hci 2013, 2013.