



Rafah MohammedKadhun Khudair Almuttairi

رفاه محمد كاظم خضير المطيري

Lecturer

PROFILE

Rafah M. Almuttairi is currently works as a Director of Studies and Planning Department at Ministry of Higher Education and Scientific Research , University of Babylon, Babylon, Iraq. She has completed her Ph.D. research in University of Hyderabad, India in April, 2012. She received her Master's Degree in Computer Science from University of Baghdad, Iraq in October, 2003. She received her Bachelors Degree in Computer Science and Bachelor Degree in Physics from University of Babylon, Iraq in October, 2001 and October 1994 respectively. In 2007 she has got a Diploma in Arabic-English translation from Osmaina University, Hayderabad, India. She has authored several international conference papers in the area of grid computing. During her working in MOH in Iraq she has taught several subjects such as Cloud Computing, Distributed Systems, Networks, Operating System, Web based Applications and Interior Design using 3DMax and Photoshop since Feb. 2004 for Undergraduate and Postgraduate students in Information and Technology, Fine Arts, Computer Engineering Colleges. Her current research interest is in the area of data grid architecture and fuzzy decision making for grid resources and replica election & enhancing Intrusion Detection systems to search for hidden attack patterns using Hadoop frameworks.

ACADEMIC TITLES

2020-02-02	Professor
2015-02-01	Associate Professor
2012-04-22	Lecturer

ADMINISTRATIVE POSITIONS

2016-07-02 - Present	Director of Studies and Planning Department
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PUBLICATIONS (3 7)

1. A Preemptive Ensemble Learning Framework for KnowledgeBased Network Intrusion Detection
Babylonian Journal of Machine Learning 2026, 110-131, 2026 | 2026
2. Machine learning Algorithms to Detect Cyber-Attack in the Internet of Things Platform
Iraqi Journal for Computer Science and Mathematics 6 (2), 26, 2025 | 2025
3. Dynamic Allocation of Weights Using the Minimally Connected Method to Augment Load Equilibrium in Distributed Systems.
International Journal of Intelligent Engineering & Systems 17 (1), 2024 | 2024 | Cited: 4
4. Utilizing Probability Distribution for Selecting Optimal and Minimal Replicas to Achieving Fault Tolerance in a Distributed System.
International Journal of Intelligent Engineering & Systems 17 (1), 2024 | 2024 | Cited: 1
5. Optimizing Cloud Computing: A Holistic Strategy for Efficient and Sustainable Operation through Ant Colony Load Balancing and Resource Optimization.
International Journal of Intelligent Engineering & Systems 17 (5), 2024 | 2024 | Cited: 6
6. Customizing the minimum number of replicas for achieving fault tolerance in a cloud/grid environment
Bulletin of Electrical Engineering and Informatics 13 (1), 396-404, 2024 | 2024 | Cited: 4

CONTACT

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EDUCATION

دكتوراه (03-02-2012)
Cloud Computing
Hyderabad

ماجستير (19-04-2004)
Imge Compression
Baghdad University

بكلوريوس (01-08-2004)
Computer Science
University of Babylon

بكلوريوس (01-08-1994)
Physics Sience
University of Babylon

RESEARCH METRICS

h-index (Scopus)	7
h-index (GS)	10
Citations (Scopus)	148
Citations (GS)	244
Documents (Scopus)	27
Documents (GS)	37

RESEARCH INTERESTS

- Cloud Computing
- Data Grids



7. **Dynamic Weight Assignment with Least Connection Approach for Enhanced Load Balancing in Distributed Systems**
2023 | Cited: 5
8. **Big Data Analysis for Healthcare Application using Minhash and Machine Learning in Apache Spark Framework**
2022 International Congress on Human-Computer Interaction, Optimization and ..., 2022 | 2022 | Cited: 6
9. **Kerberos authentication for big data applications on cloud environment**
Journal of Physics: Conference Series 1804 (1), 012062, 2021 | 2021 | Cited: 4
10. **A proactive model for optimizing swarm search algorithms for intrusion detection system**
Journal of Physics: Conference Series 1818 (1), 012053, 2021 | 2021 | Cited: 10
11. **Hybrid ANOVA and LASSO methods for feature selection and linear support vector, multilayer perceptron and random forest classifiers based on spark environment for microarray ...**
IOP Conference Series: Materials Science and Engineering 1094 (1), 012107, 2021 | 2021 | Cited: 9
12. **Enhance density peak clustering algorithm for anomaly intrusion detection system**
Periodicals of Engineering and Natural Sciences 9 (2), 965-975, 2021 | 2021 | Cited: 1
13. **Comparative study of classification algorithms to analyze and predict a twitter sentiment in apache spark**
IOP Conference Series: Materials Science and Engineering 928 (3), 032045, 2020 | 2020 | Cited: 9
14. **Un-imperceptible image steganography approach (U-IISA) in excel sheet**
University of Bahrain, 2020 | 2020 | Cited: 1
15. **Classification of Micro-array Data in Apache Spark Framework**
IOP Conference Series: Materials Science and Engineering 928 (3), 032067, 2020 | 2020
16. **Prediction Breast Cancer as Benign or Malignant in Apache Spark Framework**
IOP Conference Series: Materials Science and Engineering 928 (3), 032046, 2020 | 2020 | Cited: 2
17. **Computational intelligence algorithms to handle dimensionality reduction for enhancing intrusion detection system**
Inst Information Science, 2020 | 2020 | Cited: 23
18. **Near Real Time Twitter Sentiment Analysis and Visualization**
IOP Conference Series: Materials Science and Engineering 928 (3), 032044, 2020 | 2020 | Cited: 3
19. **Conceal Existence of Encoded Data System (CEEDS)**
2019 International Conference on Innovation and Intelligence for Informatics ..., 2019 | 2019 | Cited: 1
20. **Promote Replica Management based on Data Mining Techniques**
International Journal of Engineering & Technology 8 (1.5), 440-446, 2019 | 2019 | Cited: 1
21. **Text steganography in font color of MS excel sheet**
Proceedings of the First International Conference on Data Science, E ..., 2018 | 2018 | Cited: 13
22. **Implementing Secure Cluster using Hadoop and Snort for ID (Intrusion Detection)**
Journal of Engineering and Applied Sciences 13 (22), 9789-9799, 2018 | 2018 | Cited: 3
23. **Choice Of a Specific Path To Ensure Transmitting Data With No Wasting In The Power Of Nodes**
Journal of Education College 1 (27), 2017 | 2017 | Cited: 1
24. **TAXONOMY OF OPTIMIZATION APPROACHES OF RESOURCE BROKERS IN DATA GRIDS**
International Journal of Computer Science & Information Technology 7 (2), 135, 2015 | 2015
25. **REPLICA OPTIMIZATION TECHNIQUE IN DATA GRIDS**
Computer Science 4 (2), 2015 | 2015
26. **Smart Vogel's Approximation Method SVAM**
International Journal of Advanced Computer Research 4 (1), 198, 2014 | 2014 | Cited: 2
27. **A two phased service oriented Broker for replica selection in data grids**
Future Generation Computer Systems 29 (4), 953-972, 2013 | 2013 | Cited: 19
28. **New Replica Selection Technique for Binding Cheapest Replica Sites in Data Grids**
CS & IT Conference Proceedings 2 (3), 2012 | 2012 | Cited: 4
29. **Enhanced Replica Selection Technique for binding Replica Sites in Data Grids**
Pro. Of International Conference on Intelligent Infrastructure, 47th Annual ..., 2012 | 2012 | Cited: 2

30. **Enhanced data replication broker**
Multi-disciplinary Trends in Artificial Intelligence: 5th International Conference, MTIS 2011, 2011 | Cited: 7
31. **Rough set based quality of service design for service provisioning in clouds**
Rough Sets and Knowledge Technology: 6th International Conference, RSKT 2011, 2011 | Cited: 10
32. **Smart replica selection for data grids using rough set approximations (RSDG)**
2010 International Conference on Computational Intelligence and Applications, 2010 | Cited: 22
33. **Replica selection in data grids using preconditioning of decision attributes by k-means clustering (K-RSDG)**
2010 Second Vaagdevi International Conference on Information Technology for Management, 2010 | Cited: 14
34. **Rough set clustering approach to replica selection in data grids (RSCDG)**
2010 10th International Conference on Intelligent Systems Design and Applications, 2010 | Cited: 13
35. **Intelligent replica selection strategy for data grid**
GCA 2010: proceedings of the 2010 international conference on grid computing and applications, 2010 | Cited: 11
36. **New replica selection technique for binding replica sites in data grids**
2010 1st International Conference on Energy, Power and Control (EPC-IPC), 187-194, 2010 | Cited: 27
37. **Replica selection in data grids using preconditioning of decision attributes by k-means clustering**
Proceedings of the Vaagdevi International Conference on Information Technology, 2010 | Cited: 5