

Academic Resume



Abdullah Albarakati

Professor, Information Systems Department

Results-driven, Transformation IT executive with a proven record of success in the government and private sectors. Experienced in building and leading innovative teams in support of strategic initiative formulation and execution. Recognized leader in executing major transformational initiatives and organizational change management. Strategic leader, focused on building and delivering strategy and solutions aligned with business goals. Leader in process improvement, project management, technolo

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Highest Degree.

2012, Ph.D. in Computer Science, Software Engineering, University of Sussex, UK.

Academic and Professional Experiences.

1. **2022 - Present**
Professor, , .
2. **2014 - 2022**
Imarah of Makkah, , .

Research Interests.

Fuzzy System, Data Mining, Big Data.

Teaching Interests.

Data Mining, Big Data, Fuzzy System.

Certifications and Trainings.

1. Project Management.

Social, Scientific and Professional Affiliation.

1. 2012-Present, Profosser, King Abdulaziz University.

Funded Projects.

1. 2021, A Prescribed Performance Fault-Tolerant Strategy for Chaos Control of Fractional-Order Supply Chain Systems, KAU
2. 2022, Output-Constrained Attitude Tracking Control for Spacecraft with Adaptive Inertia and Disturbance Identifications, KAU

3. 2023, Multi-Image Hybrid Encryption Algorithm Based on Pixel Substitution and Gene Theory, KAU
4. 2023, A New Variable-Order Fractional Neural Network: Image Encryption Application and Synchronization Using a Robust Control Approach, KAU
5. 2023, Image Cryptosystem Based on Fractional-Order Hopfield Neural Network System, KAU
6. 2022, Output-Constrained Attitude Tracking Control for Spacecraft with Adaptive Inertia and Disturbance Identifications, KAU

Publications.

1. Qijia Yao, Hadi Jahanshahi, Stelios Bekiros, Jinping Liu, Abdullah A. Al-Barakati, "Fixed-Time Adaptive Chaotic Control For Permanent Magnet Synchronous Motor Subject To Unknown Parameters And Perturbations", *Mathematics*, vol: 11, pp. 3182, 2023.
DOI: [10.3390/math11143182](https://doi.org/10.3390/math11143182)
2. Xiaomei Mi, Huchang Liao, Xiao-Jun Zeng, Abdullah Al-Barakati, "Simplified Probabilistic Linguistic Preference Relation In Decision Making", *Engineering Applications Of Artificial Intelligence*, vol: 126, pp. 107140, 2023.
DOI: [10.1016/j.engappai.2023.107140](https://doi.org/10.1016/j.engappai.2023.107140)
3. Fan Liu, Huchang Liao, Xingli Wu, Abdullah Al-Barakati, "Consensus-Based Failure Mode And Effect Analysis In Group Decision-Making With Incomplete Weights Of Risk Factors: Case Study Of Stereotactic Body Radiation Therapy For Lung Cancer", *Applied Soft Computing*, vol: 142, pp. 110322, 2023.
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4. Tao Ma, Jun Mou, Abdullah A Al-Barakati, Hadi Jahanshahi, Miao Miao, "Hidden Dynamics Of Memristor-Coupled Neurons With Multi-Stability And Multi-Transient Hyperchaotic Behavior", *Physica Scripta*, vol: 98, pp. 105202, 2023.
DOI: [10.1088/1402-4896/acf24f](https://doi.org/10.1088/1402-4896/acf24f)
5. Lujie Ren, Jun Mou, Hadi Jahanshahi, Abdullah A. Al-Barakati, Yinghong Cao, "A New Multistable Chaotic System With Memristor And Memcapacitor For Fractional-Order: Dynamical Analysis, Implementation, And Synchronization", *The European Physical Journal Plus*, vol: 138, 2023.
DOI: [10.1140/epjp/s13360-023-04379-2](https://doi.org/10.1140/epjp/s13360-023-04379-2)
6. Abdullah Al-Barakati, Pratibha Rani, "Assessment Of Healthcare Waste Treatment Methods Using An Interval-Valued Intuitionistic Fuzzy Double Normalization-Based Multiple Aggregation Approach", *Environment, Development And Sustainability*, 2023.
DOI: [10.1007/s10668-023-03154-8](https://doi.org/10.1007/s10668-023-03154-8)
7. Tao Ma, Jun Mou, Abdullah A. Al-Barakati, Hadi Jahanshahi, Shu Li, "Coexistence Behavior Of A Double-Mr-Based Cellular Neural Network System And Its Circuit Implementation", *Nonlinear Dynamics*, vol: 111, pp. 11593-11611, 2023.
DOI: [10.1007/s11071-023-08443-5](https://doi.org/10.1007/s11071-023-08443-5)
8. Stelios Bekiros, Guessas Laarem, Jun Mou, Abdullah A. Al-Barakati, Hadi Jahanshahi, "Heterogeneous Agent-Based Modeling Of Endogenous Boom-Bust Cycles In Financial Markets With Adaptive Expectations And Dynamically Switching Fractions Between Contrarian And Fundamental Market Entry Strategies", *Chaos, Solitons & Fractals*, vol: 170, pp. 113330, 2023.
DOI: [10.1016/j.chaos.2023.113330](https://doi.org/10.1016/j.chaos.2023.113330)
9. Yamina Soula, Hadi Jahanshahi, Abdullah A. Al-Barakati, Irene Moroz, "Dynamics And Global Bifurcations In Two Symmetrically Coupled Non-Invertible Maps", *Mathematics*, vol: 11, pp. 1517, 2023.
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10. Fan Liu, Huchang Liao, Xingli Wu, Abdullah Al-Barakati, "Evaluating Internet Hospitals By A Linguistic Z-Number-Based Gained And Lost Dominance Score Method Considering Different Risk Preferences Of Experts", *Information Sciences*, vol: 630, pp. 647-668, 2023.
DOI: [10.1016/j.ins.2023.02.061](https://doi.org/10.1016/j.ins.2023.02.061)
11. Huchang Liao, Jiayi Wang, Ming Tang, Abdullah Al-Barakati, "An Overview Of Interval Analysis Techniques And Their Fuzzy Extensions In Multi-Criteria Decision-Making: What'S Going On And What'S Next?", *International Journal Of Fuzzy Systems*, vol: 25, pp. 2081-2108, 2023.
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12. Fan Liu, Huchang Liao, Abdullah Al-Barakati, "Physician Selection Based On User-Generated Content Considering Interactive Criteria And Risk Preferences Of Patients", *Omega*, vol: 115, pp. 102784, 2023.
DOI: [10.1016/j.omega.2022.102784](https://doi.org/10.1016/j.omega.2022.102784)
13. YE BAI, ABDULLAH ALBARAKATI, "Influence Of Music Signal On The Changes In Brain Cognition Activity And Its Nonlinear Dynamic System", *Fractals*, vol: 30, 2022.
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14. Yalan Hu, Abdullah Al-Barakati, Pratibha Rani, "Investigating The Internet-Of-Things (Iot) Risks For Supply Chain Management Using Q-Rung Orthopair Fuzzy-Swara-Aras Framework", *Technological And Economic Development Of Economy*, vol: 0, pp. 1-26, 2022.
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15. Abdullah Al-Barakati, Arunodaya Raj Mishra, Abbas Mardani, Pratibha Rani, "An Extended Interval-Valued Pythagorean Fuzzy Waspas Method Based On New Similarity Measures To Evaluate The Renewable Energy Sources", *Applied Soft Computing*, vol: 120, pp. 108689, 2022.
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16. Bander A. Alzahrani, Ahmed Barnawi, Abdullah Albarakati, Azeem Irshad, Muhammad Asghar Khan, Shehzad Ashraf Chaudhry, Hasan Ali Khattak, "Skia-Sh: A Symmetric Key-Based Improved Lightweight Authentication Scheme For Smart Homes", *Wireless Communications And Mobile Computing*, vol: 2022, pp. 1-12, 2022.
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17. Muhammad Asghar Khan, Bander A. Alzahrani, Ahmed Barnawi, Abdullah Al-Barakati, Azeem Irshad, Shehzad Ashraf Chaudhry, "A Resource Friendly Authentication Scheme For Space–Air–Ground–Sea Integrated Maritime Communication Network", *Ocean Engineering*, vol: 250, pp. 110894, 2022.
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18. Al-Barakati Abdullah, "A Framework For Acoustic Detection Of Covid-19 Based On Deep Learning", *International Journal Of Computer Science And Network Security*, 2022.
19. Zeeshan Ali, Bander A. Alzahrani, Ahmed Barnawi, Abdullah Al-Barakati, Pandi Vijayakumar, Shehzad Ashraf Chaudhry, Muhammad Arif, "Tc-Pslap: Temporal Credential-Based Provably Secure And Lightweight Authentication Protocol For Iot-Enabled Drone Environments", *Security And Communication Networks*, vol: 2021, pp. 1-10, 2021.
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20. Peng Xinyue, Zavadskas Edmundas Kazimieras, Abdullah Al-Barakati, "A Novel Decision-Making Method For Resilient Supplier Selection During Covid-19 Pandemic Outbreak Based On Hesitant Fuzzy Linguistic Preference Relations", *Transformations In Business & Economics*, 2021.
21. Al-Barakati Abdullah, "Leveraging Artificial Intelligence-Enabled Workflow Framework For Legacy Transformation", *International Journal Of Advanced Computer Science And Applications*, 2021.
22. Al-Barakati Abdullah, "Establishing A Case For Developing A Governance Framework For Ai Regulations In The Gulf Cooperation Council Countries", *Jkau: Comp. It. Sc*, 2021.
23. Jiaying Chang, Huchang Liao, Xiaomei Mi, Abdullah Al-Barakati, "A Probabilistic Linguistic Todim Method Considering Cumulative Probability-Based Hellinger Distance And Its Application In Waste Mobile Phone Recycling", *Applied Intelligence*, vol: 51, pp. 6072-6087, 2021.
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24. Alaa Omran Almagrabi, Rashid Ali, Daniyal Alghazzawi, Abdullah AlBarakati, Tahir Khurshaid, "A Reinforcement Learning-Based Framework For Crowdsourcing In Massive Health Care Internet Of Things", *Big Data*, 2021.
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27. Ahmed Barnawi, Sherif Sakr, Wenjing Xiao, Abdullah Al-Barakati, "The Views, Measurements And Challenges Of Elasticity In The Cloud: A Review", *Computer Communications*, vol: 154, pp. 111-117, 2020.
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28. Zhiying Zhang, Huchang Liao, Abdullah Al-Barakati, Edmundas Kazimieras Zavadskas, Jurgita Antuchevienė, "Supplier Selection For Housing Development By An Integrated Method With Interval Rough Boundaries", *International Journal Of Strategic Property Management*, vol: 24, pp. 269-284, 2020.
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36. Huchang Liao, Jiaying Chang, Zhiying Zhang, Xiang Zhou, Abdullah Al-Barakati, "Third-Party Cold Chain Medicine Logistics Provider Selection By A Rough Set-Based Gained And Lost Dominance Score Method", *International Journal Of Fuzzy Systems*, vol: 22, pp. 2055-2069, 2020.
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37. Bander A. Alzahrani, Shehzad Ashraf Chaudhry, Ahmed Barnawi, Wenjing Xiao, Min Chen, Abdullah Al-Barakati, "Ilas-Iot: An Improved And Lightweight Authentication Scheme For Iot Deployment", Journal Of Ambient Intelligence And Humanized Computing, 2020.
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38. Zhiqiang Liao, Huchang Liao, Ming Tang, Abdullah Al-Barakati, Carlos Llopis-Albert, "A Choquet Integral-Based Hesitant Fuzzy Gained And Lost Dominance Score Method For Multi-Criteria Group Decision Making Considering The Risk Preferences Of Experts: Case Study Of Higher Business Education Evaluation", Information Fusion, vol: 62, pp. 121-133, 2020.
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40. Sahar Aldhaheeri, Daniyal Alghazzawi, Li Cheng, Bander Alzahrani, Abdullah Al-Barakati, "Deepdca: Novel Network-Based Detection Of Iot Attacks Using Artificial Immune System", Applied Sciences, vol: 10, pp. 1909, 2020.
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42. Zhi Wen, Huchang Liao, Edmundas Kazimieras Zavadskas, Abdullah Al-Barakati, "Selection Third-Party Logistics Service Providers In Supply Chain Finance By A Hesitant Fuzzy Linguistic Combined Compromise Solution Method", Economic Research-Ekonomiska Istra?Ivanja, vol: 32, pp. 4033-4058, 2019.
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43. Song Nie, Huchang Liao, Xingli Wu, Ming Tang, Abdullah Al-Barakati, "Hesitant Fuzzy Linguistic Dnma Method With Cardinal Consensus Reaching Process For Shopping Mall Location Selection", International Journal Of Strategic Property Management, vol: 23, pp. 420-434, 2019.
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44. Xiaomei Mi, Jiamei Li, Huchang Liao, Edmundas Kazimieras Zavadskas, Abdullah Al-Barakati, Ahmed Barnawi, Osman Taylan, Enrique Herrera-Viedma, "Hospitality Brand Management By A Score-Based Q-Rung Orthopair Fuzzy V.I.K.O.R. Method Integrated With The Best Worst Method", Economic Research-Ekonomiska Istra?Ivanja, vol: 32, pp. 3272-3301, 2019.
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47. Zhi Wen, Huchang Liao, Ruxue Ren, Chunguang Bai, Edmundas Kazimieras Zavadskas, Jurgita Antucheviciene, Abdullah Al-Barakati, "Cold Chain Logistics Management Of Medicine With An Integrated Multi-Criteria Decision-Making Method", International Journal Of Environmental Research And Public Health, vol: 16, pp. 4843, 2019.
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51. Abdullah Al-Barakati, Ali Daud, "Venue-Influence Language Models For Expert Finding In Bibliometric Networks", *International Journal On Semantic Web And Information Systems*, vol: 14, pp. 184-201, 2018.
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54. Lingzhi Zhao, Jinde Cao, Chengdai Huang, Ahmed Alsaedi, Abdullah Al-Barakati, Habib M. Fardoun, "Bifurcation Control In A Delayed Two-Neuron Fractional Network", *International Journal Of Control, Automation And Systems*, vol: 15, pp. 1134-1144, 2017.
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