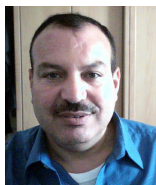


Academic Resume



Morshed Derbali

Assistant Professor, Information Technology Department

Assistant Professor - Information Technology Department

Dr. Morshed is an academic, working as assistant professor at King Abdulaziz University Jeddah, Saudi Arabia, teaching various courses such as Internet Application, Network Security ,Multimedia Approach , Computer Graphics ,Computer Architecture, Advance Programming , Introduction to robotics using Arduino and finally and not the end Games development Methods using Unity3D..

Morshed has publications in journals and conferences and superv

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Highest Degree.

2017, PhD, Detection and Diagnosis of Fault : Machine Learning Approach, National School for Engineering - Gabes, Tunisia.

Academic and Professional Experiences.

1. **2019 - Present**
PhD-Assistant Professor, Saudi Arabia, FCIT-IT-King AbdulAziz University,Jeddah., KAU.
2. **2008 - 2019**
Lecturer, Saudi Arabia, King Abdul Aziz University,Jeddah.
3. **2007 - 2008**
Assistant Faculty Member, Saudi Arabia, King Abdul Aziz University,Jeddah.
4. **2006 - 2007**
Technical Engineer, Saudi Arabia, Solution Garden for Computer Service -Jeddah.
5. **2002 - 2006**
lecturer, Tunisia, High Institute of Informatics & Multimedia of Gabès.
6. **2001 - 2002**
Head of department of Industrial computing, Tunisia, High Institute of Informatics & Multimedia of Gabès.
7. **2000 - 2001**
Instructor, Tunisia, Sectorial Center in Electronics & maintenance of Gabes.
8. **1999 - 2000**
Engineer Trainer, Tunisia, Tunisian Agency of professional Training-Den Den Electronics Center.

Research Interests.

Machine Learning-Artificial Intelligence Technology, data science, Control of process, Desalination, Sensors.

Teaching Interests.

Computer Graphics - CPIT 285, Multimedia Approach - CPIT 380, Internet Application - CPIT 405, Networking Security - CPIT 425, Operating System - CPIT 260, Advance Programming - CPIT 305, Computer Design and Architecture - CPIT 210, Design Pattern - CPIT 252, Network Application - CPIT 370.

Certifications and Trainings.

1. Master Degree - Faculty Of Engineering - Gabes- ENIG-Tunisia.
2. PhD Degree - Faculty Of Engineering - Gabes - ENIG - Tunisia.

Social, Scientific and Professional Affiliation.

1. 2008-Present, Assistant Professor, king abdulaziz university-FCIT-KAU.

Funded Projects.

1. 2013, Liquid Benchmarks: A platform for Collaborative assessment of computer science Research Results, KAUST
2. 2015, Compliance Monitoring of unmanaged Business Process, KAUST

Publications.

1. Morched Derbali, "Development And Simulation Two Wireless Hosts Communication Network Using Omnet++", Eai Endorsed Transactions On Internet Of Things, 2023.
2. Mutasem Jarrah, Morched Derbali, "Predicting Saudi Stock Market Index By Using Multivariate Time Series Based On Deep Learning", Journals Applied Sciences Volume 13 Issue 14 10.3390/App13148356, 2023.
3. Morched Derbali, "Design And Evaluation Decentralized Transactional Network Based Blockchain Technology Using Omnet++", Intelligent Systems And Machine Learning, 2023.
4. Peizhen Xing a, Hui Zhang b, Morched Derbali c, Shebnam M. Sefat d e, Amal H. Alharbi f, Doaa Sami Khafaga f, Nor Samsiah Sani, "An Efficient Algorithm For Energy Harvesting In Iiot Based On Machine Learning And Swarm Intelligence", India, 2023.
5. Morched Derbali, Mutasem Jarrah, Princy Randhawa, "Autism Spectrum Disorder Detection: Video Games Based Facial Expression Diagnosis Using Deep Learning", The Science And Information Organization, vol: 14, 2023.
DOI: [10.14569/IJACSA.2023.0140112](https://doi.org/10.14569/IJACSA.2023.0140112)
6. Nur Afyfh Suwadi, Morched Derbali, Nor Samsiah Sani, Meng Chun Lam, Haslina Arshad, Imran Khan, Ki-Il Kim, Junaid Shuja, "An Optimized Approach For Predicting Water Quality Features Based On Machine Learning", Wireless Communications And Mobile Computing, vol: 2022, pp. 1-20, 2022.
DOI: [10.1155/2022/3397972](https://doi.org/10.1155/2022/3397972)
7. Hongyang Huang, Mohammed Dauwed, Morched Derbali, Imran Khan, Sun Li, Kai Chen, Sangsoon Lim, Lisheng Fan, "An Optimized Approach For Industrial Iot Based On Edge Computing", Wireless Communications And Mobile Computing, vol: 2022, pp. 1-15, 2022.
DOI: [10.1155/2022/3918207](https://doi.org/10.1155/2022/3918207)
8. Akhtar Kamal, Morched Derbali, Sadeeq Jan, Javed Iqbal Bangash, Fazal Qudus Khan, Housseem Jerbi, Rabeh Abbassi, Gulzar Ahmad, "A User-Friendly Model For Ransomware Analysis Using Sandboxing", India, 2021.
9. Izzat Al-Darraj, Morched Derbali, Georgios Tsaramirsis, "Tilting-Rotors Quadcopters: A New Dynamics Modelling And Simulation Based On The Newton-Euler Method With Lead Compensator Control", 2021 8th International Conference On Computing For Sustainable Global Development (Indiacom), 2021.
10. Izzat Al-Darraj^{1,2}, Morched Derbali³, Housseem Jerbi⁴, Fazal Qudus Khan³, Sadeeq Jan^{5,*}, Dimitris Piromalis⁶ and Georgios Tsaramirsis⁷, "A Technical Framework For Selection Of Autonomous Uav Navigation Technologies And Sensors", Cmc-Computers Materials & Continuum, 2021.
11. RK Sahoo, M Derbali, H Jerbi, D Van Thang, "Test Case Generation From Uml-Diagrams Using Genetic Algorithm", Cmc-Computers Materials & Continuum, 2021.
12. Kamal Hussein, Javier Poncela Gonzalez, Morched Derbali, "A Smartphone Application For Two-Way Divers Communication", International Conference On Computing For Sustainable Global Development (Indiacom), 2020.
13. Georgios Tsaramirsis, Michail Papoutsidakis, Morched Derbali, Fazal Qudus Khan, Fotis Michailidis, "Towards Smart Gaming Olfactory Displays", Sensors, vol: 20, pp. 1002, 2020.
DOI: [10.3390/s20041002](https://doi.org/10.3390/s20041002)
14. Morched Derbali, Seyed M. Buhari, Georgios Tsaramirsis, Milos Stojmenovic, H. Jerbi, M. N. Abdelkrim, Mohammad H. Al-Beiruty, "Water Desalination Fault Detection Using Machine Learning Approaches: A Comparative Study", Ieee Access, vol: 5, pp. 23266-23275, 2017.
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15. Morched Derbali, Anas Fattouh, Sayd Buhari, Georgios Tsaramirsis, H. Jerbi and M.N .Abdelkrim, "Discriminant Analysis Based Fault Detection In Desalination Systems", The 3rd International Conference On Mathematical Sciences And Computer Engineering (Icmsce 2016), 2016.

Publications.

16. MORCHED DERBALI, ANAS FATTOUH , HOUSSEM JERBI , MOHAMED NACEUR ABDELKRIM, "Improved Fault Detection In Water Desalination Systems Using Machine Learning Techniques", Journal Of Theoretical And Applied Information Technology - [Http://Www.Jatit.Org/Volumes/Vol92no2/19vol92no2.Pdf](http://www.jatit.org/volumes/vol92no2/19vol92no2.pdf), 2016.
17. Morched Derbali, Anas Fattouh, Seyed M. Buhari, Georgios Tsaramirsis, Housseem Jerbi, Mohamed Naceur Abdelkrim, "Suitable Water Desalination Process Selection Using Ahp", [Http://Ieeexplore.Ieee.Org/Document/7953498/](http://ieeexplore.ieee.org/document/7953498/), 2016.
18. Morched Derbali, Mu??tasem Jarrah, Mohd Taib Wahid, "Enhancement Of Dtw Algorithm In On-Line Signature Mapping Using The Lost-Box Recovery Algorithm", Kau-Fcit Journal, 2013.
19. MORCHED DERBALI, MUTASSEM JARRAH, MOHD TAIB WAHID, "A Review Of Speech Recognition With Sphinx Engine In Language Detection", Journal Of Theoretical And Applied Information Technology, 2012.
20. Morched Derbali, Housseem jerbi, Majed Jabri, "Fault Tolerant Control Design For Nonlinear Polynomial Systems", Proceeding Ams '10 Proceedings Of The 2010 Fourth Asia International Conference On Mathematical/Analytical Modelling And Computer Simulation, 2010.