

Academic Resume



Reem Alotaibi

Associate Professor, Information Technology Department

Contact Information.

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Highest Degree.

2017, PhD, Machine Learning, University of Bristol, UK.

Academic and Professional Experiences.

1. **2021 - Present**
Associate Professor, Faculty of Computing and Information Technology, King Abdulaziz University, Jeddah, Saudi Arabia.
2. **2017 - 2021**
Assistant Professor, Faculty of Computing and Information Technology, King Abdulaziz University, Jeddah, Saudi Arabia.
3. **2009 - 2017**
Lecturer, Faculty of Computing and Information Technology, King Abdulaziz University, Jeddah, Saudi Arabia.
4. **2007 - 2009**
Teacher Assistant, Faculty of Computing and Information Technology, King Abdulaziz University.
5. **2004 - 2007**
Tutor, Faculty of Economics and Administration, King Abdulaziz University, Jeddah, Saudi Arabia.

Research Interests.

Machine learning and data mining, Statistical analysis, Computer vision, Artificial Intelligence.

Teaching Interests.

Machine learning, Data mining, Computer vision, Quantitative analysis.

Certifications and Trainings.

1. TOT Professional Trainer, 2019, Scientific endowment, King Abdulaziz University.
2. Diploma of Professional Development in Teaching and Learning, 2019, Center for Teaching and Learning Development, King Abdulaziz University.
3. Academic Leadership Diploma, 2021, Center for Teaching and Learning Development, King Abdulaziz University.
4. ITIL Foundation Certificate in IT Service Management, 2023, AXELOS Global Best Practice.
5. COBIT 5 Foundation, 2023, ISACA.
6. COBIT 2019 Foundation, 2023, ISACA.
7. Strategic Planning (DCA Strategy), 2023, IFEAS..

Social, Scientific and Professional Affiliation.

1. 2017-2019, Visiting Lecturer, University of Bristol.

Excellence Awards and Patents.

1. 2010, Interior, Award for the highest GPA for graduate students among the Science facilities, King Abdulaziz University.
2. 2015, Interior, Award of Distinction in Research by Prince Mohammed bin Nawaf Al Saud, the Saudi ambassador to the UK, Saudi Embassy in London.
3. 2021, Interior, Winner of TFC research award, Ministry of Communication and Information Technology.

Funded Projects.

1. 2018, Cost-sensitive Multi-label Classification. A project funded by Deanship of Scientific Research, King Abdulaziz University, Jeddah Saudi Arabia under grant No. (J-159-612-1440). (Principal Investigator), Deanship of Scientific Research
2. 2019, Text-Rating Reviews Discrepancy (TRRD): A Critical Review and Implications for Research. A project funded by Deanship of Scientific Research (DSR), King Abdulaziz University, Jeddah Saudi Arabia under grant No. (DF-110-165-1441). (Co-Investigator), Deanship of Scientific Research
3. 2021, Data-driven Computational Framework for Selecting Optimal Locations for Mass Dispensing of Health Services During Epidemics and Emergencies in Saudi Arabia. A project funded by Institutional Funding Program for Research and Development (Research Capability) under grant No. (IFPRC-055-612-2020). (Co-Investigator), Deanship of Scientific Research
4. 2018, Supervised and Unsupervised PCG classification for Cardiovascular Disease diagnosis. A project funded by Deanship of Scientific Research (DSR), King Abdulaziz University, Jeddah Saudi Arabia under grant No. (RG-23-611-38). (Co-Investigator), Deanship of Scientific Research
5. 2020, A New Approach for Mining Correlated Frequent Subgraph. A project funded by Institutional Funding Program for Research and Development (High Impact Publication) under grant No. (IFPHI-157-612-2020). (Principal Investigator), Deanship of Scientific Research
6. 2021, A Reinforcement Learning Based Resilient Load Balancing Mechanism for Private Blockchain Systems, A project funded by deanship of scientific Research (DSR), King Abdulaziz University, Jeddah Saudi Arabia under grant No. (GP-195-612-1443). (Principal Investigator)
7. 2022, A Location-Allocation Approach for Points of Dispensing During Public Health Emergencies, A project funded by the Deanship of Scientific Research (DSR), King Abdulaziz University under grant No. (KEP-PhD-29-612-2022). (Principal Investigator), Deanship of Scientific Research, ..

Publications.

1. Nofe Alganmi, Arwa Bashanfar, Reem Alotaibi, Haneen Banjar, Sajjad Karim, Zeenat Mirza, Heba Abusamra, Manal Al-Attas, Shereen Turkistany, Adel Abuzenadah, "Uncovering Hidden Genetic Risk Factors For Breast And Ovarian Cancers In Brca-Negative Women: A Machine Learning Approach In The Saudi Population", Peerj Computer Science, vol: 10, pp. e1942, 2024.
DOI: [10.7717/peerj-cs.1942](https://doi.org/10.7717/peerj-cs.1942)
2. Nusaybah Alghanmi, Reem Alotaibi, Sultanah Alshammari, Arif Mahmood, "Population Fusion Transformer For Subnational Population Forecasting", International Journal Of Computational Intelligence Systems, vol: 17, 2024.
DOI: [10.1007/s44196-024-00413-y](https://doi.org/10.1007/s44196-024-00413-y)
3. Nusaybah Alghanmi, Reem Alotaibi, Sultanah Alshammari, Arif Mahmood, "Population Affinity Propagation Approach For Points Of Dispensing Location Allocation", Applied Intelligence, 2023.
DOI: [10.1007/s10489-023-04809-9](https://doi.org/10.1007/s10489-023-04809-9)
4. Madini O. Alassafi, Muhammad Sohail Ibrahim, Imran Naseem, Rayed AlGhamdi, Reem Alotaibi, Faris A. Kateb, Hadi Mohsen Oqaibi, Abdulrahman A. Alshdadi, Syed Adnan Yusuf, "A Novel Deep Learning Architecture With Image Diffusion For Robust Face Presentation Attack Detection", Ieee Access, pp. 1-1, 2023.
DOI: [10.1109/ACCESS.2023.3285826](https://doi.org/10.1109/ACCESS.2023.3285826)
5. Reem Alotaibi, Felwa Abukhodair, "Radiation Dose Tracking In Computed Tomography Using Data Visualization", Technologies, vol: 11, pp. 74, 2023.
DOI: [10.3390/technologies11030074](https://doi.org/10.3390/technologies11030074)
6. Miada Almasri, Norah Al-Malki, Reem Alotaibi, "A Semi Supervised Approach To Arabic Aspect Category Detection Using Bert And Teacher-Student Model", Peerj Computer Science, vol: 9, pp. e1425, 2023.
DOI: [10.7717/peerj-cs.1425](https://doi.org/10.7717/peerj-cs.1425)
7. Madini O. Alassafi, Muhammad Sohail Ibrahim, Imran Naseem, Rayed AlGhamdi, Reem Alotaibi, Faris A. Kateb, Hadi Mohsen Oqaibi, Abdulrahman A. Alshdadi, Syed Adnan Yusuf, "Fully Supervised Contrastive Learning In Latent Space For Face Presentation Attack Detection", Applied Intelligence, 2023.
DOI: [10.1007/s10489-023-04619-z](https://doi.org/10.1007/s10489-023-04619-z)
8. Tarik Alafif, Anas Hadi, Manal Allahyani, Bander Alzahrani, Areej Alhothali, Reem Alotaibi, Ahmed Barnawi, "Hybrid Classifiers For Spatio-Temporal Abnormal Behavior Detection, Tracking, And Recognition In Massive Hajj Crowds", Electronics, vol: 12, pp. 1165, 2023.
DOI: [10.3390/electronics12051165](https://doi.org/10.3390/electronics12051165)
9. Ashwaq Alotaibi, Reem Alotaibi, Nermin Hamza, "Access Control Mechanism For Couchdb", International Journal Of Computer Science And Network Security, 2022.
10. Fawaz E. Alsaadi, Xiulan Zhang, Madini O. Alassafi, Reem M. Alotaibi, Adil M. Ahmad, Jinde Cao, "Fuzzy Command Filter Backstepping Control For Incommensurate Fractional-Order Systems Via Composite Learning", International Journal Of Fuzzy Systems, vol: 24, pp. 3293-3307, 2022.
DOI: [10.1007/s40815-022-01344-6](https://doi.org/10.1007/s40815-022-01344-6)
11. Reem Alotaibi, Madini Alassafi, Md. Saiful Islam Bhuiyan, Rajan Saha Raju, Md Sadek Ferdous, "A Reinforcement-Learning-Based Model For Resilient Load Balancing In Hyperledger Fabric", Processes, vol: 10, pp. 2390, 2022.
DOI: [10.3390/pr10112390](https://doi.org/10.3390/pr10112390)
12. Areej Alhothali, Amal Balabid, Reem Alharthi, Bander Alzahrani, Reem Alotaibi, Ahmed Barnawi, "Anomalous Event Detection And Localization In Dense Crowd Scenes", Multimedia Tools And Applications, 2022.
DOI: [10.1007/s11042-022-13967-w](https://doi.org/10.1007/s11042-022-13967-w)

Publications.

13. 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)
14. Raghad ALASSIRI, Felwa ABUKHODAIR, Manal KALKATAWI, Khalid KHASHOGGI, Reem ALOTAIBI, "Covid-19 Diagnosis From Chest Ct Scan Images Using Deep Learning", Romanian Journal Of Information Technology And Automatic Control, vol: 32, pp. 65-72, 2022.
DOI: [10.33436/v32i3y202205](https://doi.org/10.33436/v32i3y202205)
15. Reem Alotaibi, "Arima Model For Stock Market Prediction", Iccta 2022: 2022 8th International Conference On Computer Technology Applications, pp. 1-4, 2022.
DOI: [10.1145/3543712.3543723](https://doi.org/10.1145/3543712.3543723)
16. Yixue Hao, Zaiyang Tang, Bander Alzahrani, Reem Alotaibi, Reem Alharthi, Miaomiao Zhao, Arif Mahmood, "An End-To-End Human Abnormal Behavior Recognition Framework For Crowds With Mentally Disordered Individuals", Ieee Journal Of Biomedical And Health Informatics, vol: 26, pp. 3618-3625, 2022.
DOI: [10.1109/JBHI.2021.3122463](https://doi.org/10.1109/JBHI.2021.3122463)
17. Sahar Aldhaheri, Reem Alotaibi, Bandar Alzahrani, Anas Hadi, Arif Mahmood, Areej Alhothali, Ahmed Barnawi, "Macc Net: Multi-Task Attention Crowd Counting Network", Applied Intelligence, 2022.
DOI: [10.1007/s10489-022-03954-x](https://doi.org/10.1007/s10489-022-03954-x)
18. Areej Alhothali, Budoor Alwated, Kamil Faisal, Sultanah Alshammari, Reem Alotaibi, Nusaybah Alghanmi, Omaimah Bamasag, Manal Bin Yamin, "Location-Allocation Model To Improve The Distribution Of Covid-19 Vaccine Centers In Jeddah City, Saudi Arabia", International Journal Of Environmental Research And Public Health, vol: 19, pp. 8755, 2022.
DOI: [10.3390/ijerph19148755](https://doi.org/10.3390/ijerph19148755)
19. Abeer Mohammed Alshehri, Reem Meteab Alotaibi, Bandar Ahmed Alzahrani, Areej Matoog Alhothali, Ahmed Hasan Alhindi, Manal Nawar Allahyani, "Accurate Crowd Counting Using Merged Datasets", Icmlt 2022: 2022 7th International Conference On Machine Learning Technologies, pp. 131-135, 2022.
DOI: [10.1145/3529399.3529421](https://doi.org/10.1145/3529399.3529421)
20. Rui Wang, Reem Alotaibi, Bander Alzahrani, Arif Mahmood, Gaoxiang Wu, Han Xia, Abeer Alshehri, Sahar Aldhaheri, "Aac: Automatic Augmentation For Crowd Counting", Neurocomputing, 2022.
DOI: [10.1016/j.neucom.2022.04.100](https://doi.org/10.1016/j.neucom.2022.04.100)
21. Abeer Alshehri, Mounira Taileb, Reem Alotaibi, "Deepaia: An Automatic Image Annotation Model Based On Generative Adversarial Networks And Transfer Learning", Ieee Access, pp. 1-1, 2022.
DOI: [10.1109/ACCESS.2022.3165077](https://doi.org/10.1109/ACCESS.2022.3165077)
22. Kamil Faisal, Sultanah Alshammari, Reem Alotaibi, Areej Alhothali, Omaimah Bamasag, Nusaybah Alghanmi, Manal Bin Yamin, "Spatial Analysis Of Covid-19 Vaccine Centers Distribution: A Case Study Of The City Of Jeddah, Saudi Arabia", International Journal Of Environmental Research And Public Health, vol: 19, pp. 3526, 2022.
DOI: [10.3390/ijerph19063526](https://doi.org/10.3390/ijerph19063526)
23. Nusaybah Alghanmi, Reem Alotaibi, Sultanah Alshammari, Areej Alhothali, Omaimah Bamasag, Kamil Faisal, "A Survey Of Location-Allocation Of Points Of Dispensing During Public Health Emergencies", Frontiers In Public Health, vol: 10, 2022.
DOI: [10.3389/fpubh.2022.811858](https://doi.org/10.3389/fpubh.2022.811858)
24. Amal Almansour, Reem Alotaibi, Hajar Alharbi, "Text-Rating Review Discrepancy (Trrd): An Integrative Review And Implications For Research", Future Business Journal, vol: 8, 2022.
DOI: [10.1186/s43093-022-00114-y](https://doi.org/10.1186/s43093-022-00114-y)

Publications.

25. Elaf Alshehri, Manal Kalkatawi, Felwa Abukhodair, Khalid Khashoggi, Reem Alotaibi, "Covid-19 Diagnosis From Medical Images Using Transfer Learning", Saudi Journal Of Health Systems Research, pp. 1-8, 2022.
DOI: [10.1159/000521658](https://doi.org/10.1159/000521658)
26. Bander Alzahrani, Ahmed Barnawi, Azeem Irshad, Areej Alhothali, Reem Alotaibi, Muhammad Shafiq, "A Secure Key Agreement Scheme For Unmanned Aerial Vehicles-Based Crowd Monitoring System", Computers, Materials & Continua, vol: 70, pp. 6141-6158, 2022.
DOI: [10.32604/cmc.2022.020774](https://doi.org/10.32604/cmc.2022.020774)
27. Madini O. Alassafi, Mutasem Jarrah, Reem Alotaibi, "Time Series Predicting Of Covid-19 Based On Deep Learning", Neurocomputing, 2022.
DOI: [10.1016/j.neucom.2021.10.035](https://doi.org/10.1016/j.neucom.2021.10.035)
28. Mehrez Boulares, Reem Alotaibi, Amal AlMansour, Ahmed Barnawi, "Cardiovascular Disease Recognition Based On Heartbeat Segmentation And Selection Process", International Journal Of Environmental Research And Public Health, vol: 18, pp. 10952, 2021.
DOI: [10.3390/ijerph182010952](https://doi.org/10.3390/ijerph182010952)
29. Ximei Li, Reem Alotaibi, "Application Of Nonlinear Dynamic Expectation And Stochastic Differential Equation In Valuation And Financing Risk Measurement Of Technology-Based Small And Medium-Sized Enterprises", Fractals, 2021.
DOI: [10.1142/S0218348X22400576](https://doi.org/10.1142/S0218348X22400576)
30. Nusaybah Alghanmi, Reem Alotaibi, Seyed M. Buhari, "Machine Learning Approaches For Anomaly Detection In Iot: An Overview And Future Research Directions", Wireless Personal Communications, 2021.
DOI: [10.1007/s11277-021-08994-z](https://doi.org/10.1007/s11277-021-08994-z)
31. Tarik Alafif, Bander Alzahrani, Yong Cao, Reem Alotaibi, Ahmed Barnawi, Min Chen, "Generative Adversarial Network Based Abnormal Behavior Detection In Massive Crowd Videos: A Hajj Case Study", Journal Of Ambient Intelligence And Humanized Computing, 2021.
DOI: [10.1007/s12652-021-03323-5](https://doi.org/10.1007/s12652-021-03323-5)
32. Yingying Jiang, Yiming Miao, Bander Alzahrani, Ahmed Barnawi, Reem Alotaibi, Long Hu, "Ultra Large-Scale Crowd Monitoring System Architecture And Design Issues", Ieee Internet Of Things Journal, pp. 1-1, 2021.
DOI: [10.1109/JIOT.2021.3076257](https://doi.org/10.1109/JIOT.2021.3076257)
33. Wenjing Xiao, Miao Li, Bander Alzahrani, Reem Alotaibi, Ahmed Barnawi, Qingsong Ai, "A Blockchain-Based Secure Crowd Monitoring System Using Uav Swarm", Ieee Network, vol: 35, pp. 108-115, 2021.
DOI: [10.1109/MNET.011.2000210](https://doi.org/10.1109/MNET.011.2000210)
34. Yuan Tang, Yiming Miao, Ahmed Barnawi, Bander Alzahrani, Reem Alotaibi, Kai Hwang, "A Joint Global And Local Path Planning Optimization For Uav Task Scheduling Towards Crowd Air Monitoring", Computer Networks, pp. 107913, 2021.
DOI: [10.1016/j.comnet.2021.107913](https://doi.org/10.1016/j.comnet.2021.107913)
35. Anas A. Khan, Hadil M. Alahdal, Reem M. Alotaibi, Hana S. Sonbol, Rana H. Almaghrabi, Yousef M. Alsafayan, Saqer M. Althunayyan, Faisal A. Alsaif, Sami S. Almudarra, Khaled I. Alabdulkareem, Abdullah M. Assiri, Hani A. Jokhdar, "Controlling Covid-19 Pandemic: A Mass Screening Experience In Saudi Arabia", Frontiers In Public Health, vol: 8, 2021.
DOI: [10.3389/fpubh.2020.606385](https://doi.org/10.3389/fpubh.2020.606385)
36. Tarik Alafif, Reem Alotaibi, Ayman Albassam, Abdulelah Almudhayyani, "On The Prediction Of Isolation, Release, And Decease States For Covid-19 Patients: A Case Study In South Korea", Isa Transactions, 2021.
DOI: [10.1016/j.isatra.2020.12.053](https://doi.org/10.1016/j.isatra.2020.12.053)

Publications.

37. Nahla Aljojo, Reem Alotaibi, Basma Alharbi, Areej Alshutayri, Amani Tariq Jamal, Ameen Banjar, Mashael Khayyat, Azida Zainol, Abrar Al-Roqy, Rahaf Al-Magrabi, Taghreed Khalawi, Sarah Al-Harhi, "Alzheimer Assistant: A Mobile Application Using Machine Learning", Romanian Journal Of Information Technology And Automatic Control, vol: 30, pp. 7-26, 2020.
DOI: [10.33436/v30i4y202001](https://doi.org/10.33436/v30i4y202001)
38. Reem Alotaibi, Peter Flach, "Multi-Label Thresholding For Cost-Sensitive Classification", Neurocomputing, 2020.
DOI: [10.1016/j.neucom.2020.12.004](https://doi.org/10.1016/j.neucom.2020.12.004)
39. Reem Alotaibi, Ahlam Ali, Haya Alharhi, Renad Almehamdi, "Ai Chatbot For Tourist Recommendations: A Case Study In The City Of Jeddah, Saudi Arabia", International Journal Of Interactive Mobile Technologies (Ijim), vol: 14, pp. 18, 2020.
DOI: [10.3991/ijim.v14i19.17201](https://doi.org/10.3991/ijim.v14i19.17201)
40. Reem Alotaibi, Tahani Alnazzawi, Nermin Hamza, "A New Location-Based Privacy Protection Algorithm With Deep Learning", Security And Privacy, 2020.
DOI: [10.1002/spy2.139](https://doi.org/10.1002/spy2.139)
41. Reem Alotaibi, Bander Alzahrani, Rui Wang, Tarik Alafif, Ahmed Barnawi, Long Hu, "Performance Comparison And Analysis For Large-Scale Crowd Counting Based On Convolutional Neural Networks", Ieee Access, pp. 1-1, 2020.
DOI: [10.1109/ACCESS.2020.3037395](https://doi.org/10.1109/ACCESS.2020.3037395)
42. Nawal Aljedani, Reem Alotaibi, Mounira Taieb, "Multi-Label Arabic Text Classification: An Overview", International Journal Of Advanced Computer Science And Applications, vol: 11, 2020.
DOI: [10.14569/IJACSA.2020.0111086](https://doi.org/10.14569/IJACSA.2020.0111086)
43. Nawal Aljedani, Reem Alotaibi, Mounira Taieb, "Hmatc: Hierarchical Multi-Label Arabic Text Classification Model Using Machine Learning", Egyptian Informatics Journal, 2020.
DOI: [10.1016/j.eij.2020.08.004](https://doi.org/10.1016/j.eij.2020.08.004)
44. Hadil Alahdal, Fatemah Basingab, Reem Alotaibi, "An Analytical Study On The Awareness, Attitude And Practice During The Covid-19 Pandemic In Riyadh, Saudi Arabia", Journal Of Infection And Public Health, 2020.
DOI: [10.1016/j.jiph.2020.06.015](https://doi.org/10.1016/j.jiph.2020.06.015)
45. Mehrbakhsh Nilashi, Hossein Ahmadi, Abbas Sheikhtaheri, Roya Naemi, Reem Alotaibi, Ala Abdulsalam Alarood, Asmaa Munshi, Tarik A. Rashid, Jing Zhao, "Remote Tracking Of Parkinson Disease Progression Using Ensembles Of Deep Belief Network And Self-Organizing Map", Expert Systems With Applications, pp. 113562, 2020.
DOI: [10.1016/j.eswa.2020.113562](https://doi.org/10.1016/j.eswa.2020.113562)
46. Ashwaq Alotaibi, Reem Alotaibi, Nermin Hamza, "Access Control Models In Nosql Databases: An Overview", Journal Of King Abdulaziz University Computing And Information Technology Sciences, vol: 8, pp. 1-9, 2019.
DOI: [10.4197/Comp.8-1.1](https://doi.org/10.4197/Comp.8-1.1)
47. Nusaybah Alghanmi, Reem Alotaibi, Seyed M Buhari, "Hlmc: A Hybrid Learning Anomaly Detection Model For Unlabeled Data In Internet Of Things", Ieee Access, vol: 7, pp. 179492-179504, 2019.
DOI: [10.1109/ACCESS.2019.2959739](https://doi.org/10.1109/ACCESS.2019.2959739)
48. Reem Alotaibi, Rawan Alufi, Khadija Alamoudi, Roba Alghamdi, Shaima Sami, Maram Almarie, "Saveit: A Smart Archive For It Senior Projects", 11th International Conference On Education And New Learning Technologies, pp. 294-301, 2019.
DOI: [10.21125/edulearn.2019.0111](https://doi.org/10.21125/edulearn.2019.0111)

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49. Tahani Alnazzawi, Reem Alotaibi, Nermin Hamza, "Achieving High Privacy Protection In Location-Based Recommendation Systems", International Journal Of Advanced Computer Science And Applications, vol: 10, 2019.
DOI: [10.14569/IJACSA.2019.0101027](https://doi.org/10.14569/IJACSA.2019.0101027)
50. Nusaybah Alghanmi, Reem Alotaibi, Seyed M Buhari, "Tcmd: A Two-Tier Classification Model For Anomaly-Based Detection In Iot", 2019 6th Swiss Conference On Data Science (Sds), pp. 130-135, 2019.
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51. Tahani S. Al-Nazzawi, Reem Alotaibi, Nermin Hamza, "Toward Privacy Protection For Location Based Recommender Systems: A Survey Of The State-Of-The-Art", 2018 1st International Conference On Computer Applications & Information Security (Iccais), pp. 1-7, 2018.
DOI: [10.1109/CAIS.2018.8441958](https://doi.org/10.1109/CAIS.2018.8441958)
52. Reem Al-Otaibi, Meelis Kull, Peter Flach, "Declaratively Capturing Local Label Correlations With Multi-Label Trees", The Biennial European Conference On Artificial Intelligence (Ecai), 2016.
53. Reem Al-Otaibi, Nanlin Jin, Tom Wilcox, Peter Flach, "Feature Construction And Calibration For Clustering Daily Load Curves From Smart-Meter Data", Ieee Transactions On Industrial Informatics, vol: 12, pp. 645-654, 2016.
DOI: [10.1109/TII.2016.2528819](https://doi.org/10.1109/TII.2016.2528819)
54. Reem Al-Otaibi, Ricardo B. C. Prudencio, Meelis Kull, Peter Flach, "Versatile Decision Trees For Learning Over Multiple Contexts", vol: 9284, pp. 184-199, 2015.
DOI: [10.1007/978-3-319-23528-8_12](https://doi.org/10.1007/978-3-319-23528-8_12)
55. Reem Al-Otaibi, Meelis Kull, Peter Flach, "Lacova: A Tree-Based Multi-Label Classifier Using Label Covariance As Splitting Criterion", 2014 13th International Conference On Machine Learning And Applications (Icmla), pp. 74-79, 2014.
DOI: [10.1109/ICMLA.2014.17](https://doi.org/10.1109/ICMLA.2014.17)
56. R. Al-Otaibi, S. Gamalel-Din, "Intelligent Querying For Adaptive Course Preparation And Delivery In E-Learning", Web-Based Education, 2010.
DOI: [10.2316/P.2010.688-026](https://doi.org/10.2316/P.2010.688-026)
57. Shehab Gamalel-Din, Reem Al-Otaibi, "Smart Assistant For Adaptive Course Preparation And Delivery In E-Learning Environments", In Proceedings Of The 7th European Conference On E-Learning, 2008.