Academic Resume
Emad Jaha

Associate Professor, Computer Science Department

Emad Sami Jaha is an Associate Professor with the Computer Science Department, Faculty of Computing and Information Technology at KAU. He was a research member of the Vision, Learning, and Control research group at the University of Southampton; he has been researching soft biometrics using clothing attributes for human identification and retrieval and later has come to pioneer Soft Clothing Biometrics. He has published several research articles in leading international journals and conferences

Contact Information.

Building 31, Room 140, ejaha@kau.edu.sa.

Highest Degree.

2016, PhD in Computer Science, Machine Learning and Biometrics Systems, University of Southampton, UK.

Academic and Professional Experiences.

1. **2022 - Present**
   Associate Professor, Faculty of Computing and Information Technology (FCIT), King Abdulaziz University (KAU).
2. **2019 - 2023**
   Director of Career Counseling and Employment Support Center, Vice Presidency for Development, KAU.
3. **2017 - 2023**
   Vice Dean of Students Affairs for Alumni, Deanship of Students Affairs, undertake various administrative duties concern with graduates advising, training, support, and employment, KAU.
4. **2017 - 2017**
   Reviewer of IT Bachelor curriculum, in the Programmatic Transformation Meetup, Taif University.
5. **2017 - 2017**
   CS Dept. Council Secretary, Department of Computer Science, prepared the department council meeting agendas and reported the minutes of meetings, FCIT, KAU.
6. **2017 - 2017**
   Consultant of Vice Deanship, in Project Management Office (PMO), FCIT, KAU.
7. **2016 - 2021**
   Assistant Professor, Faculty of Computing and Information Technology, King Abdulaziz University.
8. **2016 - 2016**
   Short course presenter, Presented a short course on (programming and data analysis using Matlab for research purposes), in cooperation with the Students Union, University of Southampton (Soton), UK.
9. **2011 - 2015**
   Lecturer, Faculty of Computing and Information Technology, King Abdulaziz University.
10. **2005 - 2010**
    Teaching Assistant, Faculty of Computing and Information Technology, King Abdulaziz University.
11. **2004 - 2006**
    Trainer, Short Courses Unit, Deanship of Community Services and Continuing Education (CSCE), KAU.
12. **2004 - 2005**
    Developer and IT Admin, Technical Support Unit, Institute of Endowment, General Authority for Awqaf.

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Academic and Professional Experiences.

13. **2004 - 2005**
    Developer and IT Admin, in IT Unit, Deanship of CSCE, KAU.

Research Interests.

Machine/Deep Learning and Pattern Recognition, Biometrics Systems and Soft Biometrics, Biometric Human Identification/Authentication, Computer Vision and Image Processing, Artificial Intelligence, Arabic Computing.

Teaching Interests.

Programming, Biometrics, Digital forensics, AI, Machine learning, Pattern recognition, Computer vision/graphics.

Certifications and Trainings.

1. "Machine Learning", by Dr. Sargur Srihari, University at Buffalo, USA, held in Department of Information & Computer Science, KFUPM, Dhahran, SA.
2. "Technical Writing Skills for Science and Engineering PhD students" by Prof. D.P. Shepherd and Prof. R.W. Eason, FPSE Graduate School, University of Southampton, Southampton, UK.
3. "Presenting Your Research", by Prof. P. Reed, Dr. A. McAlpine, Prof. D.P. Shepherd, and Prof. R.W. Eason, FPSE Graduate School, University of Southampton, Southampton, UK.
4. First place award in the Senior Project Competition of Computer Science Department, KAU.
5. "Integrated Programming at Internet Environment", provided by MAIT training institute, Jeddah, SA.
6. Student Assessment Strategies, within the Professional University Instructor Program, Center of Teaching and Learning Development, KAU.
7. Integrating Technology into Education, within the Professional University Instructor Program, Center of Teaching and Learning Development, KAU.
8. Administration of e-Services Platforms for Graduates and Students (Symplicity CSM), Symplicity/BME.
9. Advanced administration of e-Services Platforms for Graduates and Students (Symplicity CSM), Symplicity/BME.

Social, Scientific and Professional Affiliation.

1. 2017-2023, Vice Dean of Students Affairs for Alumni, Deanship of Students Affairs, KAU.
2. 2016-2021, Assistant Professor, Dept. of Computer Science, FCIT, KAU.
3. 2019-2023, Director of Career Guidance and Employment Support Center, Vice Presidency for Development, KAU.
4. 2022-Present, Associate Professor, Dept. of Computer Science, FICT, KAU.

Excellence Awards and Patents.

1. 2017, Interior, Faculty Award of Excellence in Academic Teaching, FCIT, KAU.
2. 2013, Interior, PhD Distinction award for four years 2013-2016 granted by, the Saudi Arabia Cultural Bureau in UK.

Funded Projects.

1. 2021, An Efficient Automated Technique for Classification of Breast Cancer Using Deep Ensemble Model, DSR-KAU

Publications.

1. Asrar Hussain Alderham, Emad Sami Jaha, "Improved Candidate-Career Matching Using Comparative Semantic Resume Analysis", Advances In Science, Technology And Engineering Systems Journal, vol: 9, pp. 15-22, 2024.
   DOI: 10.25046/aj090103

2. Ameerah Abdullah Alshahrani, Emad Sami Jaha, Nahed Alowidi, "Fusion Of Hash-Based Hard And Soft Biometrics For Enhancing Face Image Database Search And Retrieval", Computers, Materials & Continua, vol: 77, pp. 3489-3509, 2023.
   DOI: 10.32604/cmc.2023.044490

3. Ghoroub Talal Bostaji, Emad Sami Jaha, "Fine-Grained Soft Ear Biometrics For Augmenting Human Recognition", Computer Systems Science And Engineering, vol: 47, pp. 1571-1591, 2023.
   DOI: 10.32604/csse.2023.039701

4. Maram Saleh Alwagdani, Emad Sami Jaha, "Deep Learning-Based Child Handwritten Arabic Character Recognition And Handwriting Discrimination", Sensors, vol: 23, pp. 6774, 2023.
   DOI: 10.3390/s23156774

5. Nada Faisal Aljohani, Emad Sami Jaha, "Visual Lip-Reading For Quranic Arabic Alphabets And Words Using Deep Learning", Computer Systems Science And Engineering, vol: 46, pp. 3037-3058, 2023.
   DOI: 10.32604/csse.2023.037113

6. Emad Sami Jaha, "Semantic Document Layout Analysis Of Handwritten Manuscripts", Computers, Materials And Continua, vol: 75, pp. 2805-2831, 2023.
   DOI: 10.32604/cmc.2023.036169

7. Ameerah Abdullah Alshahrani, Emad Sami Jaha, "Locality-Sensitive Hashing Of Soft Biometrics For Efficient Face Image Database Search And Retrieval", Electronics, vol: 12, pp. 1360, 2023.
   DOI: 10.3390/electronics12061360

8. Muhammad Zia Ur Rehman, Jawad Ahmad, Emad Sami Jaha, Abdullah Marish Ali, Mohammed A. Alzain, Faisal Saeed, "An Efficient Automated Technique For Classification Of Breast Cancer Using Deep Ensemble Model", Computer Systems Science And Engineering, vol: 46, pp. 897-911, 2023.
   DOI: 10.32604/csse.2023.035382

9. Asrar Hussain Alderham, Emad Sami Jaha, "Comparative Semantic Resume Analysis For Improving Candidate-Career Matching", 2022 14th International Conference On Computational Intelligence And Communication Networks (Cicn), pp. 313-321, 2022.
   DOI: 10.1109/CICN56167.2022.10008255

10. Omar Abdulaziz Alorainan, Emad Sami Jaha, "Machine Learning Based User Activity Analysis And Behavior Evaluation For More Energy Efficient Environments", Proc. Of The Interdisciplinary Conference On Mechanics, Computers And Electrics (Icmece 2022), 2022.

11. Rahul Sharma, Amar Singh, Kavita, N. Z. Jhanjhi, Mehedi Masud, Emad Sami Jaha, Sahil Verma, "Plant Disease Diagnosis And Image Classification Using Deep Learning", Computers, Materials, And Continua, vol: 71, pp. 2125-2140, 2022.
    DOI: 10.32604/cmc.2022.020017

12. Najlaa Hindi Alsaedi, Emad Sami Jaha, "Dynamic Audio-Visual Biometric Fusion For Person Recognition", Computers, Materials, And Continua, vol: 71, pp. 1283-1311, 2022.
    DOI: 10.32604/cmc.2022.021608

13. Mohammed A. AlZain, Jehad F. Al-Amri, Ahmed I. Sallam, Emad Sami Jaha, Sultan S. Alshamrani, Hala S. El-Sayed, Osama S. Faragallah, "Developing Secure Healthcare Video Consultations For Corona Virus (Covid-19) Pandemic", Intelligent Automation And Soft Computing, vol: 31, pp. 1627-1640, 2022.
    DOI: 10.32604/iasc.2022.020137

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Publications.

14. Osama S. Faragallah, Sultan S. Alshamrani, Heba M. El-Hoseny, Mohammed A. AlZain, Emad Sami Jaha, Hala S. El-Sayed, "Utilization Of Deep Learning-Based Crowd Analysis For Safety Surveillance And Spread Control Of Covid-19 Pandemic", Intelligent Automation And Soft Computing, vol: 31, pp. 1483-1497, 2022.
    DOI: 10.32604/iasc.2022.020330

15. Rawan Sulaiman Howyan, Emad Sami Jaha, "Semantic Human Face Analysis For Multi-Level Age Estimation", Intelligent Automation & Soft Computing, vol: 31, pp. 555-580, 2022.
    DOI: 10.32604/iasc.2022.019533

16. Najlaa Hindi Alsaedi, Emad Sami Jaha, "Dynamic Feature Subset Selection For Occluded Face Recognition", Intelligent Automation & Soft Computing, vol: 31, pp. 407-427, 2022.
    DOI: 10.32604/iasc.2022.019538

17. Arun Kumar, Sivabalan Ambigapathy, Mehedi Masud, Emad Sami Jaha, Sumit Chakravarty, Kanchan Sengar, "An Efficient Hybrid Papr Reduction For 5g Noma-Fbmc Waveforms", Computers, Materials & Continua, vol: 69, pp. 2967-2981, 2021.
    DOI: 10.32604/cmc.2021.019092

18. Muhammad Alyas Khan, Mushtaq Ali, Mohsin Shah, Toqeer Mahmood, Muneer Ahmad, NZ Jhanjhi, Mohammad Arif Sobhan Bhuiyan, Emad Sami Jaha, "Machine Learning-Based Detection And Classification Of Walnut Fungi Diseases", Intelligent Automation & Soft Computing, vol: 30, pp. 771-785, 2021.
    DOI: 10.32604/iasc.2021.018039

19. Lei Ru, Bin Zhang, Jing Duan, Guo Ru, Ashutosh Sharma, Gaurav Dhiman, Gurjot Singh Gaba, Emad Sami Jaha, Mehedi Masud, Deepak Gupta, "A Detailed Research On Human Health Monitoring System Based On Internet Of Things", Wireless Communications And Mobile Computing, vol: 2021, pp. 1-9, 2021.
    DOI: 10.1155/2021/5592454

20. Emad Sami Jaha, "Augmenting Gabor-Based Face Recognition With Global Soft Biometrics", 2019 7th International Symposium On Digital Forensics And Security (Isdfs), pp. 1-5, 2019.
    DOI: 10.1109/ISDFS.2019.8757553

21. Emad Sami Jaha, "Efficient Gabor-Based Recognition For Handwritten Arabic-Indic Digits", International Journal Of Advanced Computer Science And Applications, vol: 10, 2019.
    DOI: 10.14569/IJACSA.2019.0100114

22. Emad Sami Jaha, Mark S. Nixon, "Clothing Analysis For Subject Identification And Retrieval", vol: 121, pp. 167-211, 2017.
    DOI: 10.1007/978-3-319-52081-0_8

23. Mark S. Nixon, Bingchen H. Guo, Sarah V. Stevenage, Emad S. Jaha, Nawaf Almudhahka, Daniel Martinho-Corbishley, "Towards Automated Eyewitness Descriptions: Describing The Face, Body And Clothing For Recognition", Visual Cognition, pp. 1-15, 2017.
    DOI: 10.1080/13506285.2016.1266426

24. Shouki A. Ebad, Emad S. Jaha, Mohammed A. Al-Qadhi, "Analyzing Privacy Requirements: A Case Study Of Healthcare In Saudi Arabia", Informatics For Health And Social Care, vol: 41, pp. 47-63, 2016.
    DOI: 10.3109/17538157.2014.965301

25. Emad Sami Jaha, Mark S. Nixon, "From Clothing To Identity: Manual And Automatic Soft Biometrics", Ieee Transactions On Information Forensics And Security, vol: 11, pp. 2377-2390, 2016.
    DOI: 10.1109/TIFS.2016.2584001

26. Emad Sami Jaha, Mark S. Nixon, "Viewpoint Invariant Subject Retrieval Via Soft Clothing Biometrics", 2015 International Conference On Biometrics (Icb), pp. 73-78, 2015.
    DOI: 10.1109/ICB.2015.7139078

Publications.

27. Emad Sami Jaha, Mark S. Nixon, "Analysing Soft Clothing Biometrics For Retrieval", vol: 8897, pp. 234-245, 2014.
    DOI: 10.1007/978-3-319-13386-7_19

28. Emad Sami Jaha, Mark S. Nixon, "Soft Biometrics For Subject Identification Using Clothing Attributes", 2014 Ieee International Joint Conference On Biometrics (Ijcb), pp. 1-6, 2014.
    DOI: 10.1109/BTAS.2014.6996278

29. E.S. Jaha, L. Ghouti, "Color Face Recognition Using Quaternion Pca", 4th International Conference On Imaging For Crime Detection And Prevention 2011 (Icdp 2011), pp. P12-P12, 2011.
    DOI: 10.1049/ic.2011.0109

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