Academic Resume

Muhammad Umair Ramzan

Associate Professor, Computer Science Department

Currently working as Associate Professor at King Abdulaziz University (KAU), Jeddah – KSA.
24 Years teaching, research and industry experience in well reputed international and national institutions.
11 years of experience in designing the curriculum of Computer Science courses.
5 Years industry experience as System Analyst and Developer.
PhD from Vrije Universiteit, Amsterdam ranked among top 150 universities worldwide
40 research articles including book chapters, journals

Contact Information.

Building 31, Room 142, Add. Department of Computer Science, King Abdulaziz University, Jeddah,
muramzan@kau.edu.sa.

Highest Degree.

2012, , Ambient Agent Modelling (Artificial Intelligence), Vrije Universiteit Amsterdam, Netherlands.

Academic and Professional Experiences.

1. **2017 - Present**
   Course Coordinator, Department of Computer Science, King Abdulaziz University, Jeddah.
2. **2017 - Present**
   Member Postgraduate Committee, Department of Computer Science, King Abdulaziz University, Jeddah.
3. **2015 - Present**
   Associate Professor, Jeddah, Kingdom of Saudi Arabia, King Abdul Aziz University (KAU).
4. **2014 - 2015**
   Member, Departmental Graduate Advisory Committee (DGAC), Department of Computer Science,
   COMSATS Institute of Information Technology (CIIT), Lahore, , .
5. **2014 - 2015**
   Convener, Campus Auction Committee (CAC), COMSATS Institute of Information Technology (CIIT),
   Lahore, , .
6. **2014 - 2015**
   Convener, Campus Record Review Committee (CRRC), COMSATS Institute of Information Technology
   (CIIT), Lahore, , .
7. **2014 - 2015**
   Convener, Campus Purchase Committee (CPC), COMSATS Institute of Information Technology (CIIT),
   Lahore, , .
8. **2013 - 2015**
   Associate Professor COMSATS Institute of Information Technology (CIIT), Lahore, , .
9. **2013 - 2015**
   Member Board of Studies,Govt. College University (GCU), Faisalabad, , .

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Academic and Professional Experiences.

10. **2013 - 2015**
Member, Departmental Academics Regulatory Committee (DARC), Department of Computer Science, COMSATS Institute of Information Technology (CIIT), Lahore, , .

11. **2013 - 2015**
Member, Unfair Means Control Committee (UMCC), COMSATS Institute of Information Technology (CIIT), Lahore, , .

12. **2013 - 2015**
Member Board of Studies,COMSATS Institute of Information Technology (CIIT), Lahore, , .

13. **2013 - 2013**
In-charge, Job Placement Bureau, Institute of Management Sciences (Pak-AIMS), Lahore, , .

14. **2012 - 2015**
Dual Degree Programme-Coordinator (BS-CS), COMSATS Institute of Information Technology (CIIT), Lahore, , .

15. **2012 - 2015**
Convener, Computing & Information Technology (CIT), Department of Computer Science, COMSATS Institute of Information Technology (CIIT), Lahore, , .

16. **2012 - 2015**
Member, Departmental Research and Development Committee (DR&DC), Department of Computer Science, COMSATS Institute of Information Technology (CIIT), Lahore, , .

17. **2012 - 2015**
Group Coordinator, Agent Technologies and Information Systems (ATIS), Department of Computer Science, COMSATS Institute of Information Technology (CIIT), Lahore, , .

18. **2012 - 2015**
Member, Undergraduate Admission Committee(UGAC), COMSATS Institute of Information Technology (CIIT), Lahore, , .

19. **2008 - 2012**
Guest Researcher VrijeUniversiteit, Amsterdam, The Netherlands, , .

20. **2005 - 2013**
Assistant Professor COMSATS Institute of Information Technology (CIIT), Lahore, , .

21. **2003 - 2005**
Lecturer COMSATS Institute of Information Technology (CIIT), Lahore, , .

22. **2001 - 2002**
Visiting Lecturer Punjab University College of Information Technology (PUCIT), Lahore, , .

23. **2000 - 2003**
In-charge,MCS/MIS Programmes, Institute of Management Sciences (Pak-AIMS), Lahore, , .

24. **2000 - 2003**
Lecturer / Visiting Lecturer Institute of Management Sciences (Pak-Aims), Lahore, , .

25. **1999 - 2000**
Lecturer Minhaj International University, Lahore, , .

26. **1999 - 1999**
Member Board of Studies, BahaudinZikriya University, Multan, , .

27. **1999 - 1999**
Paper Setter / Examiner B.Sc.(Computer Science) Programme, BahaudinZikriya University, Multan, , .

28. **1998 - 1999**
Lecturer Govt. College, Dera Ghazi Khan, , .

29. **1998 - 1999**
In-Charge, Department of Computer Science, Govt. College DeraGhazi Khan, , .

Academic and Professional Experiences.

30. **1998 - 1998**
    Programmer/System Analyst Sohail Enterprises, Jhang, , .

Research Interests.

Primarily my research interest are Pervasive and Ubiquitous Computing, Human Processes Modelling, Ambient Agent Modelling, Artificial Intelligence, Natural Language Processing, Algorithm Analysis and Data Structure.

Teaching Interests.

I have been teaching Data Structure and Algorithms, Design and Analysis of Algorithms, Computer Programming (C, C++ and Java), Discrete Structure and Operating System Concepts to Undergraduate and Postgraduate level students in different institutes including Lancaster University (Dual Degree Programme) UK, KAU, Jeddah, COMSATS University Islamabad (CUI), Lahore Campus, Punjab University College of Information Technology (PUCIT), Lahore..

Certifications and Trainings.

1. Summer School Computational Intelligence in Health Care (CIHC), Eindhoven University of Technology, The Netherlands.
2. Teaching & Learning in Higher Education, Higher Education Commission, Islamabad, Pakistan.
3. Oracle Faculty Development Programme DBA Track, Punjab Information Technology Board, Lahore, Pakistan.
4. Oracle Faculty Development Programme Developer Track, Punjab Information Technology Board, Lahore, Pakistan.

Social, Scientific and Professional Affiliation.

1. 2022-2023, Sub Reviewer, ICAISC 2023 organized by Western Saudi Arabia Section.
2. 2012-2012, PC Member, IEEE INMIC 2012 organized by IEEE Islamabad Section.
3. 2022-2023, PC Member, ICACS 2023 organized by IEEE Lahore Section.
4. 2022-2022, PC Member, FIT 2022 organized by IEEE Islamabad Section.

Excellence Awards and Patents.

1. 1998, Interior, First Position in Competitive Examination, Punjab Public Service Commission (PPSC), Pakistan.
2. 2008, International, Overseas Scholarship for PhD studies, Higher Education Commission (HEC), Pakistan.
3. 2011, Interior, Award for Excellence in Research, COMSATS University Islamabad (CUI), Pakistan.
4. 2012, Interior, Award for Excellence in Research, COMSATS University Islamabad (CUI), Pakistan.
5. 2019, Interior, Best Teacher Award, Department of Computer Science, KAU, Jeddah- Kingdom of Saudi Arabia.

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Publications.

1. Muhammad Emran, Vijey Thayananthan, Muhammad Umair, Ivan Kotuliak, Muhammad Shuaib Qureshi, Muhammad Bilal Qureshi, Muhammad Zubair Asghar, "The Handover And Performance Analysis Of Lte Network With Traditional And Sdn Approaches", Wireless Communications And Mobile Computing, vol: 2022, pp. 1-9, 2022.
   DOI: 10.1155/2022/7387737

2. Muhammad Umair, Majed Alghamdi, "Agent Based Decision Support Model For Symbiosis Interaction Type", Global Scientific Journals, Volume 6, Issue 7, July 2018 Pp. 910-931, 2018.

3. Jawad Shafi, Plamen Angelov, Muhammad Umair, "Prediction Of The Attention Area In Ambient Intelligence Tasks", vol: 623, pp. 33-56, 2016.
   DOI: 10.1007/978-3-319-27267-2_2

4. Jan Treur, Muhammad Umair, "Emotions As A Vehicle For Rationality: Rational Decision Making Models Based On Emotion-Related Valuing And Hebbian Learning", Biologically Inspired Cognitive Architectures, vol: 14, pp. 40-56, 2015.
   DOI: 10.1016/j.bica.2015.05.001

5. Muhammad Umair, "Adaptivity, Emotion, And Rationality In Human And Ambient Agent Models", 2012.

6. Rasool, Ghulam, Muhammad Umair, Talib, Ramzan, "Extended Visualization Of Overlapping In Recognized Design Patterns", Journal Of Basic And Applied Scientific Research (Jbasr), 2012, Volume 2(9), Pp 9080-9087, Issn 2090 - 4304, Isi Indexed., 2012.

7. Talib, Ramzan, Rasool, Ghulam, Muhammad Umair, "Convergence Of Data Mining And Process Management For Operational Intelligence", Journal Of Basic And Applied Scientific Research (Jbasr), 2012, Volume 2(10), Pp 10384 - 10395, Issn 2090-4304, Isi Indexed, 2012.

8. Muhammad Umair, Talib, Ramzan, Rasool, Ghulam, "An Adaptive Multi-Agent Model For Dynamics Of Emotion Contagion In Groups", Journal Of Basic And Applied Scientific Research (Jbasr), 2012, Volume 2(8), Pp 7876 - 7883, Issn 2090-4304, 2012.

9. Jan Treur, Muhammad Umair, "Rationality For Temporal Discounting, Memory Traces And Hebbian Learning", vol: 431, pp. 53-61, 2012.
   DOI: 10.1007/978-3-642-30732-4_7

10. Tibor Bosse, Jan Treur, Muhammad Umair, "Rationality For Adaptive Collective Decision Making Based On Emotion-Related Valuing And Contagion", vol: 431, pp. 103-112, 2012.
    DOI: 10.1007/978-3-642-30732-4_13

11. Jan Treur, Muhammad Umair, "A Human-Like Agent Model For Attribution Of Actions Using Ownership States And Inverse Mirroring", vol: 7345, pp. 574-585, 2012.
    DOI: 10.1007/978-3-642-31087-4_59

12. Tibor Bosse, Mark Hoogendoorn, Zulfiqar A. Memon, Jan Treur, Muhammad Umair, "A Computational Model For Dynamics Of Desiring And Feeling", Cognitive Systems Research, vol: 19-20, pp. 39-61, 2012.
    DOI: 10.1016/j.cogsys.2012.04.002

13. TIBOR BOSSE, ZULFIQAR A. MEMON, ROGIER OORBURG, JAN TREUR, MUHAMMAD UMAIR, MICHAEL DE VOS, "A Software Environment For An Adaptive Human-Aware Software Agent Supporting Attention-Demanding Tasks", International Journal On Artificial Intelligence Tools, vol: 20, pp. 819-846, 2011.
    DOI: 10.1142/S0218213011000310

14. Jan Treur, Muhammad Umair, "An Agent Model Integrating An Adaptive Model For Environmental Dynamics", International Journal Of Intelligent Information And Database Systems, vol: 5, pp. 201, 2011.
    DOI: 10.1504/IJIIDS.2011.040086

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Publications.

15. Jan Treur, Muhammad Umair, "A Cognitive Agent Model Using Inverse Mirroring For False Attribution Of Own Actions To Other Agents", vol: 6704, pp. 109-119, 2011.
    DOI: 10.1007/978-3-642-21827-9_12

16. Jan Treur, Muhammad Umair, "On Rationality Of Decision Models Incorporating Emotion-Related Valuing And Hebbian Learning", vol: 7064, pp. 217-229, 2011.
    DOI: 10.1007/978-3-642-24965-5_24

17. Zulfiqar A. Memon, Rogier Oorburg, Jan Treur, Muhammad Umair, Michael de Vos, "A Software Environment For A Human-Aware Ambient Agent Supporting Attention-Demanding Tasks", Procedia Computer Science, vol: 1, pp. 2033-2042, 2010.
    DOI: 10.1016/j.procs.2010.04.227

18. Jan Treur, Muhammad Umair, "An Ambient Agent Model Incorporating An Adaptive Model For Environmental Dynamics", vol: 5990, pp. 210-220, 2010.
    DOI: 10.1007/978-3-642-12145-6_22

19. Mark Hoogendoorn, Zulfiqar A. Memon, Jan Treur, Muhammad Umair, "A Model-Based Ambient Agent Providing Support In Handling Desire And Temptation", vol: 71, pp. 461-475, 2010.
    DOI: 10.1007/978-3-642-12433-4_55

20. Tibor Bosse, Mark Hoogendoorn, Zulfiqar A. Memon, Jan Treur, Muhammad Umair, "An Adaptive Model For Dynamics Of Desiring And Feeling Based On Hebbian Learning", vol: 6334, pp. 14-28, 2010.
    DOI: 10.1007/978-3-642-15314-3_3

21. Memon, Z.A., Treur, J., and Muhammad Umair, "A Comparative Analysis On Adaptive Modelling Of Induced Feelings", Advances In Cognitive Neurodynamics (Ii) , Edited By: Rubin Wang, Fanjigu, Published By: Springer Netherlands, Pp: 507-522, Standard: Isbn:978-90-481-9694-4, 2009.

22. Mark Hoogendoorn, Jan Treur, Muhammad Umair, "An Ecological Model-Based Reasoning Model To Support Nature Park Managers", vol: 5579, pp. 172-182, 2009.
    DOI: 10.1007/978-3-642-02568-6_18

23. Tibor Bosse, Zulfiqar A. Memon, Jan Treur, Muhammad Umair, "An Adaptive Human-Aware Software Agent Supporting Attention-Demanding Tasks", vol: 5925, pp. 292-307, 2009.
    DOI: 10.1007/978-3-642-11161-7_20

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