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Assistant Professor, Punjab University College of Information Technology
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(last update: 05-01-2015)

ACADEMIC QUALIFICATIONS

2007 – 2011   PhD in Computer Science at Agent Systems Research Group, Department of Artificial Intelligence, VU University Amsterdam, The Netherlands.

Thesis Title: Analysis and Validation of Models for Trust Dynamics

Promoter: prof. dr. Jan Treur, **Co-Promoter:** dr. Mark Hoogendoorn

1999 – 2001   Master of Science (M. Sc.) in Computer Science from Department of Computer Science University of the Punjab, Lahore, Pakistan

1998 – 1999   Postgraduate Diploma (PGD) in Computer Science from Department of Computer Science University of the Punjab, Lahore, Pakistan

1996 – 1998   Bachelor of Science (B. Sc.) in Physics, Pure and Applied Mathematics from Punjab University, Lahore, Pakistan

1994 – 1996   Intermediate in Pre-Engineering (F. Sc. Higher Secondary School Examination), from Board of Intermediate and Secondary Education, Lahore, Pakistan

1992 – 1994   Matriculation (Secondary School Examination), from Board of Intermediate and Secondary Education, Lahore, Pakistan

EMPLOYMENT HISTORY

2012 – to date   Full time Assistant Professor on Tenure Track System, Punjab University College of Information Technology, University of the Punjab, Lahore, Pakistan

2012 – 2012   Full time Assistant Professor on contract basis, Punjab University College of Information Technology, University of the Punjab, Lahore, Pakistan

2011 – 2012   PostDoc (Guest Researcher), Agent Systems Research Group, Department of Artificial Intelligence, VU University Amsterdam, The Netherlands

2007 – 2011   Full time PhD candidate in Computer Science, Agent Systems Research Group, Department of Artificial Intelligence, VU University Amsterdam, The Netherlands

2002 – 2007   Full time Lecturer on contract basis, Punjab University College of Information Technology, University of the Punjab, Lahore, Pakistan

2001 – 2002   Visiting Lecturer, Punjab University College of Information Technology, University of the Punjab, Lahore, Pakistan

2001 – 2002   Permanent Lecturer, Pak Institute of Management and Computer Sciences, Lahore, Pakistan

RESEARCH, REPORTS AND CREATIVE ACTIVITIES

(names of the authors are in alphabetical order and all can be regarded as having made a comparable contribution, exceptions are marked *)

Books and Book Chapters

1. Arts, M., Avital, M., Bennamar, K., Besselink, T., Boog, W., Collard, P., Colton, S., Corneille, S., Germans, D., Gielink, S., Hanson, A., Hanson, D., Hekkert, P., Hoekendijk, C., Hoorn, J. F., Jaffry, S. W., Jensenius, H., Krabbendam, D., Kresin, F., Kuipers, A., Kuipers, T., Lee, M., Lindenberg, V., Lowe, J., Straffon, L. Miller, A. I., Molella, A., Olthof, T., Ott, C., Otte, M., Poelman, W., Pontier, M., Postma, A., Roosendaal, L., Rump, V., Runco, M., Smeulders, A., Taylor, R., van den Herik, J., van der Kooij, K., van der Sloot, J., van der Veen, O., van Dijk, G., van Gorsel, P., van Rosmalen, B., van Uden, J., Werner, J., *Organic Creativity and Physics Within*, 2013, John Benjamins Publishing.

2. Jaffry, S. W., (2011), Analysis and Validation of Models for Trust Dynamics, PhD Thesis, VU University Amsterdam, The Netherlands.

Published Research Papers in International Journals

1. Hoogendoorn, M., Jaffry, S.W., Maanen, P.P. van, and Treur, J., Design and Validation of a Relative Trust Model, Knowledge-Based System, Elsevier B. V. 2013, to appear.

2. Hoogendoorn, M., Jaffry, S.W., Maanen, P.P. van, and Treur, J., Modelling Biased Human Trust Dynamics, Web Intelligence and Agent Systems: An International Journal (WIAS), vol. 11, no. 1, IOS Press, 2013, pp. 1-21.

3. Jaffry, S.W., and Treur, J., Agent-Based and Population-Based Modelling of Trust Dynamics, Transactions on Computational Collective Intelligence (TCCI), vol. 9, Springer Verlag, 2013, pp 124-151.

4. Bosse, T., Jaffry, S.W., Siddiqui, G.F., Treur, J., Comparative Analysis of Agent-Based and Population-Based Modelling in Epidemics and Economics. In: Multiagent and Grid Systems, An International Journal (MAGS), vol. 8, no. 3, IOS Press, 2012, pp. 223-255.

5. Hoogendoorn, M., Jaffry, S.W., and Treur, J., Cognitive and Neural Modeling of Dynamics of Trust in Competitive Trustees. In: Cognitive Systems Research Journal (CSR), vol. 14, no. 1, Elsevier B. V., 2012, pp. 60-83. Impact Factor 0.75.

6. Bosse, T., Both, F., Hoogendoorn, M., Jaffry, S.W., Lambalgen, R. van, Oorburg, R., Sharpanskykh, R., Treur, J., and Vos, M. de, Design and Validation of a Model for a Human's Functional State and Performance. In: International Journal of Modeling, Simulation, and Scientific Computing (IJMSSC), vol. 2, no. 4, World Scientific Publishing, 2011, pp. 413-443.

7. Bosse, T., Gerritsen, C., Hoogendoorn, M., Jaffry, S.W., and Treur, J., Agent-Based versus Population-Based Simulation of Displacement of Crime: A Comparative Study. In: Web Intelligence and Agent Systems Journal (WAIS), vol. 9, no. 2, IOS Press, 2011, pp. 147-160.

International Journal Submissions (to submit):

1. Hoogendoorn, M., Jaffry, S.W., and Treur, J., Decision Making in Dynamic Environments Based on Interdependent Trust States.

2. Mubashir, M.M., Jaffry, S.W., Incorporation of the Driver's Personality Profile in an Agent Model.

Published Research Papers in International Conferences and Workshops Proceedings

1. Shoaib, H., Jaffry, S. W., A Survey of Augmented Reality. In: Proceedings of International Conference on Virtual and Augmented Reality (ICVAR 2015), January, 8-9, 2015, Singapore, to appear.

2. Haris, M., Jaffry, S. W., An Object Based Conceptual Framework for Location Based Social Networking. In: Proceedings of International Workshop on Location-Based Social Networks (LBSN'13) associated with the 21st ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems, November 5-8, 2013, Orlando, Florida, USA, pp. 15-23.

3. Saeed, A., R., Jaffry, S. W., Information Mining from Islamic Scriptures. In: Proceedings of The 4th Workshop on South and Southeast Asian Natural Language Processing (WSSANLP) associated with the International Joint Conference on Natural Language Processing (IJCNLP), Nagoya, Japan, October 14th – 18th, 2013. Asian Federation of Natural Language Processing, 2013, pp. 66-71.

4. Latif, I., Jaffry, S. W., A Survey on Trust Evaluation Mechanisms for Wikipedia. In: Proceedings of the International Workshop on Social Natural Language Processing (SocialNLP) in conjunction with 6th International Joint Conference on Natural Language Processing (IJCNLP), Nagoya, Japan, October 14th – 18th, 2013. Asian Federation of Natural Language Processing, 2013, pp. 36-42.

5. Mansoor, F., Rohail, M., Jaffry S. W., Empirical Validation for Human Decision Making, In: Proceedings of the Seventh International Workshop on Human Aspects in Ambient Intelligence in International Conference on Intelligent Agent Technology (HAI-IAT'13), IEEE Computer Society Press, 2013, pp. 187-190.

6. Jaffry, S.W., and Treur, J., Modelling Trust for Communicating Agents: Agent-Based and Population-Based Perspectives. In: Jedrzejowicz, P., Nguyen, N.T., Hoang, K. (eds.), Proceedings of the Third International Conference on Computational Collective Intelligence, (ICCCI'11), Gdynia, Poland, September 21st – 23rd, 2011. Lecture Notes in Artificial Intelligence, Springer Verlag, 2011, pp. 366-377. [BEST STUDENT PAPER AWARD]

7. Hoogendoorn, M., Jaffry, S.W., Maanen, P.P. van, and Treur, J., Modeling and Validation of Biased Human Trust. In: Boissier, O., et al. (eds.), Proceedings of the 11th IEEE/WIC/ACM International Conference on Intelligent Agent Technology, (IAT'11), Lyon, France, August 22nd – 27th, 2011. IEEE Computer Society Press, 2011, pp. 256-263.

8. Hoogendoorn, M., Jaffry, S.W., and Maanen, P.-P. van., Validation and Verification of Agent Models for Trust: Independent compared to Relative Trust. Proceedings of the 5th IFIP WG 11.11 International Conference on Trust Management. (TM'11), Copenhagen, Denmark, June 29th - July 1st, 2011. International Federation of Information Processing, Advances in Information and Communication Technology Series, Springer Verlag, 2011, vol. 358, pp. 35-50.

9. Hoogendoorn, M., Jaffry, S.W., and Treur, J., Exploration and Exploitation in Adaptive Trust-Based Decision Making in Dynamic Environments. In: Huang, X.J., Ghorbani, A.A., Hacid, M.-S., Yamaguchi, T. (eds.) Proceedings of the 10th IEEE/WIC/ACM International Conference on Intelligent Agent Technology, (IAT'10), Toronto, Canada, August 31st - September 3rd, 2010. IEEE Computer Society Press, 2010, pp. 256-260.

10. Hoogendoorn, M., Jaffry, S.W., and Treur, J., Incorporating Interdependency of Trust Values in Existing Models for Trust Dynamics. In: Nishigaki, M., Josang, A., Murayama, Y., Marsh, S. (eds.), Trust Management IV, Proceedings of the 4th International Conference on Trust Management, Advances in Information and Communication Technology, (TM'10), Morioka, Iwate, Japan, June 16th - 18th, 2010. Advances in Information and Communication Technology, vol. 321. Springer Verlag, 2010, pp. 263-276.

11. Both, F., Hoogendoorn, M., Jaffry. S.W., Lambalgen, R. van, Oorburg, R., Sharpanskykh, A., Treur, J., and Vos, M. de, Adaptation and Validation of an Agent Model of Functional State and Performance for Individuals. In: Yang, J.-J.; Yokoo, M.; Ito, T.; Jin, Z.; Scerri, P. (eds.), Proceedings of 12th International Conference on Principles of Practice in Multi-Agent Systems. (PRIMA'09), Nagoya, Japan, December 13th - 16th, 2009. Lecture Notes in Artificial Intelligence, vol. 5925, Springer Verlag, 2009, pp. 595-607.

12. Jaffry, S.W., and Treur, J., Comparing a Cognitive and a Neural Model for Relative Trust Dynamics. In: Leung, C.S., Lee, M., and Chan, J.H. (eds.), Proceedings of 16th International Conference on Neural Information Processing. (ICONIP'09), Bangkok, Thailand, December 1st - 5th, 2009. Lecture Notes in Computer Science, vol. 5863 Part I, Springer Verlag, 2009, pp. 72-83.

13. Hoogendoorn, M., Jaffry, S.W., and Treur, J., Modeling Trust Dynamics from a Neurological Perspective. In: Wang, R., Gu, F. (eds.), Advances in Cognitive Neurodynamics II, Proceedings of the 2nd International Conference on Cognitive Neurodynamics. (ICCN'09), Hangzhou, China, November 15th - 19th, 2009. Springer Verlag, 2011, pp. 523-536.

14. Hoogendoorn, M., Jaffry, S.W., and Treur, J., An Adaptive Agent Model Estimating Human Trust in Information Sources. In: Baeza-Yates, R., Lang, J., Mitra, S., Parsons, S., Pasi, G. (eds.), Proceedings of the 9th IEEE/WIC/ACM International Conference on Intelligent Agent Technology, (IAT'09), Milan, Italy, September 15th - 18th, 2009. IEEE Computer Society Press, 2009, pp. 458-465.

15. Hoogendoorn, M., Jaffry. S.W., The Influence of Personalities upon the Dynamics of Trust and Reputation. In: Proceedings of International Symposium on Secure Computing (SecureCom'09), in conjunction with the IEEE International Conference on Privacy, Security, Risk and Trust, (PASSAT'09), Vancouver, Canada, August 29th - 31st, 2009. IEEE Computer Society Press, 2009, pp. 263-270.

16. Bosse, T., Gerritsen, C., Hoogendoorn, M., Jaffry, S.W., and Treur, J., Comparison of Agent-Based and Population-Based Simulations of Displacement of Crime. In: Jain, L., Gini, M., Faltings, B.B., Terano, T., Zhang, C., Cercone, N., Cao, L. (eds.), Proceedings of the 8th IEEE/WIC/ACM International Conference on Intelligent Agent Technology, (IAT'08), Sydney, Australia, December 9th - 12th, 2008. IEEE Computer Society Press, 2008, pp. 469-476.

17. Hoogendoorn, M., Jaffry, S.W., and Treur, J., Modeling Dynamics of Relative Trust of Competitive Information Agents. In: Klusch, M., Pechoucek, M., Polleres, A. (eds.), Proc. of the 12th International Workshop on Cooperative Information Agents, (CIA'08), Prague, Czech Republic, September 10th – 12th, 2008. Lecture Notes in Artificial Intelligence, vol. 5180, Springer Verlag, 2008, pp. 55-70.

18. Bosse, T., Gerritsen, C., Hoogendoorn, M., Jaffry, S.W., and Treur, J., Agent-Based and Population-Based Simulation of Displacement of Crime (extended abstract). In: Ghallab, M. (ed.), Proceedings of the 18th European Conference on Artificial Intelligence, (ECAI'08), Patras, Greece, July 21st–25th, 2008. IOS Press, 2008, pp. 877-878.

19. Jaffry, S.W., Treur, J., Agent-Based and Population-Based Simulation: A Comparative Case Study for Epidemics. In: Proceedings of the 22nd European Conference on Modeling and Simulation, (ECMS'08), Nicosia, Cyprus, June 3rd – 6th, 2008. European Council on Modeling and Simulation, 2008, pp. 123-130.

20. *Idrees, M., Yousaf, M. M., Jaffry, S. W., Pasha, M. A., Hussain, S. A., Enhancements in AODV Routing Using Mobility Aware Agents. In: Proceedings of IEEE International Conference on Emerging Technologies, (ICET'05), Islamabad, Pakistan, September 16th – 17th, 2005. pp. 98-102.

Poster Presentations in Conferences and Workshops
(names of the authors are in alphabetical order, expectations are marked *)

1. Both, F., Hoogendoorn, M., Jaffry. S.W., Lambalgen, R. van, Oorburg, R., Sharpanskykh, A., Treur, J., and Vos, M. de, Validation of an Agent Model for Human Work Pressure. In: The 9th International Conference on Cognitive Modeling, (ICCM'09), Manchester, (United Kingdom), July 24th – 26th, 2009.

2. Hoogendoorn, M., Jaffry, S.W., and Treur, J., Parameter Estimation for Human Trust in Information Sources (Poster). In: Workshop on Parameter Estimation for Dynamical Systems (PEDS), Eindhoven, (The Netherlands), June 8th – 10th, 2009.

3. Both, F., Hoogendoorn, M., Jaffry. S.W., Lambalgen, R. van, Oorburg, R., Sharpanskykh, A., Treur, J., and Vos, M. de, An Approach to Validate an Agent Model for Human Work Pressure (Poster). In: Workshop on Parameter Estimation for Dynamical Systems (PEDS), Eindhoven, (The Netherlands), June 8th – 10th, 2009.

Journal Reviews

- Knowledge-Based System, Elsevier B. V.
- IEEE Intelligent Systems Magazine, IEEE Computer Society Press.
- Simulation Modelling Practice and Theory, Elsevier B. V.
- International Journal of Computer Mathematics, Taylor & Francis.
- Multiagent and Grid Systems an International Journal, IOS Press.

Conference Program Committee (PC) Membership

- International Conference on Simulation and Modeling Methodologies, Technologies and Applications (SIMULTECH 2015)
- 1st KUST International Conference on Computer Architecture and Algorithms (CAA 2015)
- International Neural Network Society Symposium on Emerging Digital Media (INNS SoEDM 2014)
- Conference on Information Assurance and Cyber Security (CIACS 2014)
- International Conference on Frontiers of Information Technology (FIT' 2012, 2013, 2014).
- International Workshop on Trust in Agent Societies (TRUST 2012, 2013, 2014).
- The 6th IFIP WG 11.11 International Conference on Trust Management (IFIPTM 2012).
- International Conference on Data Technologies and Applications (DATA 2012).
- 1st International Workshop on Trustworthy Multi-Agent Systems (TruMAS 2012).
- International Workshop on Trusted Communications in Decentralized Computing (TCDC 2010).

International Conference and Workshop Reviews

- International Conference on Intelligent Agent Technology (IAT'10, IAT'11)
- International Conference on Autonomous Agents and Multiagent Systems (AAMAS'10, AAMAS'11)
- International Conference on Industrial Engineering & Other Applications of Applied Intelligent Systems (IEA/AIE'10)
- International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMAS'10)
- International Workshop on Trusted Communications in Decentralized Computing (TCDC 2010)
- European Conference on Artificial Intelligence (ECAI'09)

- International Workshop on Multi-Agent Based Simulation (MABS'09)

PROJECTS AND FUNDING

2013 – 2014   Principal Investigator, Undergraduate Final Year Project tilled, *Human Acceptance of Autonomous Social Media Agent*, funded by National Information and Communication Technology Research and Development (ICT RnD) Fund, value PKRS 40,000.

2013 – 2014   Principal Investigator, Undergraduate Final Year Project, *3D Visualization of Search Engine*, funded by National Information and Communication Technology Research and Development (ICT RnD) Fund, value PKRS 36,250.

2012 – 2013   Principal Investigator, Undergraduate Final Year Project, *Automated Scientific Literature Acquisition for Systematic Literature Review*, funded by University of the Punjab Research Support Fund, value PKRS 150,000.

2012 – 2013   Principal Investigator, Undergraduate Final Year Project tilled, *Unsupervised Deception Detection in Text*, funded by National Information and Communication Technology Research and Development (ICT RnD) Fund, value PKRS 28,750.

2012 – 2013   Principal Investigator, Undergraduate Final Year Project, *Validation of Trust based Human Decision Making*, funded by National Information and Communication Technology Research and Development (ICT RnD) Fund, value PKRS 82,550.

2004 – 2005   Principal Investigator, *Urdu Linux Localization Project*, Research and Development Project of Free and Open Source Software Foundation of Pakistan (FOSSFP).

SUPERVISED/ UNDER SUPERVISION PROJECTS/THESES

Graduate Thesis under Supervision

2014 – 2015

1. MSCSF13M001 - Hafiza Baseerat Fatima, *"Design and Analysis of a Social Agent"*.
2. MSCSF13M012 - Muhammad Bilal Javed, *"Modelling and Simulation of Human Cultures"*.
3. MSCSF13M022 - Nida Qureshi, *"URDU Wikipedia Auto Content Analysis and Extension"*.
4. MSCSF13M025 - Huma Shoaib, *"Associating Sentiments with Images"*.
5. MSCSF13M040 - Ainee Ejaz Mirza, *"Modelling and Analysis of the Textual Complexity for a Child"*.
6. MSCSF12M007 - Raheel Imtiaz, *"Parallel and Distributed Framework for Big Data Analytics of Wikipedia"*.
7. Ali Hussain Khan, *"Design of a Creative Agent"*.

2013 – 2014

1. MSCSF11M002, Bilal Shahzad, *"Data Visualization for Social Networks"*.
2. MSCSF11M017, Imran Latif, *"Fostering Readers Trust on Wikipedia through Behaviour Analysis of Wikipedia Editors"*.

Graduate Thesis Supervised

2012 – 2013

1. MSGSF10M003, Muhammad Haris, *"Design of a Conceptual Framework for Location Based Social Networking"*.
2. MSCSF11M013, Mian Muhammad Mubasher, *"A Multi-agent Model for Realistic Urban Traffic Flow Simulation"*.

Undergraduate Projects under Supervision

2014 – 2015

1. Aamir Bhatti, Ahsan Hayat, Safiyan Zulfiqar, Gohar Ali, "*Virtual Reality Powered Driving Tutor*".
2. Awais Cheema, Maida Fatima, Ali Zaib, Zeeshan Sabir, *"Defend and Destroy Warcraft Strategy Game"*.
3. Tasadduq Ali, Abdullah Tariq, Muazzam Abbas, Wasif Saeed, *"Technology for Litigation"*.
4. Mukkarram ur Rehman, Irfan Farooq, Hammad Zahid, Mshood Alam, Umer Hayat, Misbah Ali, Junaid Sarfraz, *"Technology for Research"*.
5. Hammad Ahmad Qadri, *"National Digital Research Repository"*.
6. Maheen Khizar, "*Incident Mining from NEWS Paper*".

Undergraduate Projects Supervised

2013 – 2014

1. Awais Asghar, *"Digital Research Repository Scraper"*.
2. Arslan Ihsan, *"Tracebook"*,
3. Hafiz Mujadid Khalid, *"Intelligent Literature Review Assistant"*.
4. Ammarah Ijaz, M. Anas Khan, *"Social Agent"*.
5. Muhammad Rehan, Sundas Saif, *"Version Control System for Multimedia Files"*.
6. Haider Ali, Muhammad Umair, *"Virtual Psychiatrist"*.
7. Zia Ur Rehman Kiyani, *"3D Search Engine"*.
8. Shmeel Ahmed, *"Vehicular Traffic Flow Scenario Development Environment"*.

2012 – 2013

1. Fahad Majeed, Hamad Hassan, Muhammad Usman, "*Online Social Network Portal for Researchers*".
2. Amjad Afzaal, Muhammad Tauseef, "*Web mining for Research and Researchers*".
3. Rafay Ahmad, Asim Arshad, Fakhar Uz Zaman, Ahsan Ejaz, "*National Data Visualization*".
4. Fahad Mansoor, Muhammad Rohail, "*Empirical Validation of Decision Making in Uncertain Environment*".
5. Bilal Ahmad Yaseen, "*Automated Scientific Literature Acquisition for Systematic Literature Review*".
6. Hira Zaidi, "*Identification of Deception from Text*".
7. Osama Jameel Ahmad, "*NEWS Miner from Twitter Streams*".
8. Abdul Rauf Saeed, "*Intelligent Information Retrieval from Quran and Hadith text*".
9. Muhammad Bhasham, "*Virtual Tutor*".
10. Ali Farzan, "*Visualization of Web*".
11. Sami Atiq, "*Internet Footprint Finder*".

2005 – 2006

1. M. Waseem Latif, Muhwish Rathore, "*Intelligent Customized Information Retrieval Agent for Web*".
2. M. Rizwan Asghar, "*Service Oriented Computing Interface (SOCI) for Legacy Systems*".
3. Fayyaz Khan Lodhi, Zaheer Ahmad, "*Electronic Government Service Manager for Service (EGSM) Oriented Computing Model of E-Government*".

2004 – 2005

1. Touseef Liaquat, "*Machine Learning for Multi-Agent Systems*".
2. Mohsin Mahmood, M. Ahsan, M. Azeem Yousaf, H. Abdul Shakoor, "*Urdu – English Lexicon*".
3. Fahad Akhtar, M. Kashif, Qasim Ali, Shehzad Amin, *"Urdu Language Morphological Guesser"*.

UNIVERSITY TEACHING

2013 – 2015   *Data Mining and Information Retrieval* to graduate and postgraduate classes at Punjab University College of Information Technology, University of the Punjab, Lahore, Pakistan.

2013 – 2015   *Managing Information* to postgraduate classes at Institute of Communication Studies, University of the Punjab, Lahore, Pakistan.

2013 – 2014   *Topics in Artificial Intelligence* to graduate and postgraduate classes at Punjab University College of Information Technology, University of the Punjab, Lahore, Pakistan.

2012 – 2015   *Computational Modeling* to graduated and postgraduate classes at Punjab University College of Information Technology, University of the Punjab, Lahore, Pakistan.

2012 – 2014   *Introduction to Artificial Intelligence* to undergraduate classes at Punjab University College of Information Technology, University of the Punjab, Lahore, Pakistan.

2012 – 2013   *Research Methods in Information and Computational Sciences* to graduated and postgraduate classes at Punjab University College of Information Technology, University of the Punjab, Lahore, Pakistan.

2010 – 2011   *Advance Programming* to under-graduated class at Department of Computer Science, VU University, Amsterdam, The Netherlands.

2009 – 2010   *Organizational Dynamics using LeedsTo language* to graduated class at Department of Artificial Intelligence VU University, Amsterdam, The Netherlands.

2008 – 2009   *Dynamics of Behavior using LeedsTo language* to graduated class at Department of Artificial Intelligence VU University, Amsterdam, The Netherlands.

2006 – 2007   *Introduction to Artificial Intelligence* to undergraduate classes at Punjab University College of Information Technology, University of the Punjab, Lahore, Pakistan.

2004 – 2006   *System Programming in LINUX using C and C++* languages to undergraduate classes at Punjab University College of Information Technology, University of the Punjab, Lahore, Pakistan.

2003 – 2004   Data Structures and Algorithms using C++ language to undergraduate and postgraduate classes at Punjab University College of Information Technology, University of the Punjab, Lahore, Pakistan.

2002 – 2003   *Object Oriented Programming using C++ language* to undergraduate and postgraduate classes at Punjab University College of Information Technology, University of the Punjab, Lahore, Pakistan.

2001 – 2002   *Introduction to Programming Concepts using C language* to undergraduate classes at Punjab University College of Information Technology, University of the Punjab, Lahore, Pakistan.

CO AND EXTRA CURRICULAR DUTIES PERFORMED AT UNIVERSITY LEVEL:

2012 – to date   Head, PUCIT Artificial Intelligence and Multidisciplinary (AIM) Research Laboratory, Lahore, Pakistan.

2012 – to date   Degree Coordinator, PUCIT MPhil/PhD Programs, Lahore, Pakistan.

2013 – to date   Faculty Advisor, PUCIT ACM Student Chapter, Lahore, Pakistan.

2012 – 2012   Secretary, Admission Process Review Committee at PUCIT, Lahore, Pakistan.

2012 – 2012   Secretary, Research Advisory Committee at PUCIT, Lahore, Pakistan.

2001 – 2007   Head/Chairman, Computer Society at PUCIT, Lahore, Pakistan.

2002 – 2007   Secretary, Curriculum Development Committee at PUCIT, Lahore, Pakistan.

2006 – 2007	Member of Board of Studies, Punjab University for the Subject of Computer Science and Information Technology.
2006 – 2007	Member, PUCIT Scholarship Committee, Lahore, Pakistan.
2003 – 2006	Knowledge Mentor, Subjects of Programming Concepts, Object Oriented Programming, Data Structures and System Programming at PUCIT, Lahore, Pakistan.
2005 – 2006	Member, Distributed Computing Research Centre (DCRC) at PUCIT, Lahore, Pakistan.
2005 – 2006	Undergraduate and Postgraduate semester Coordinator at PUCIT, Lahore, Pakistan.
2003 – 2005	Degree In-charge, B. Sc. (Honors) Degree in Computer Science at PUCIT, Lahore, Pakistan.
2004 – 2005	Patron, PUCIT Electronic Magazine COMPUTING.
2005 – 2005	Coordinator for FOSSAC'05, 1st National Free and Open Source Software Awareness Campaign held on 16-19 August 2005, Punjab University Lahore, Pakistan.
2002 – 2004	Postgraduate Degree Project Coordinator, PUCIT, Lahore, Pakistan.
2002 – 2003	In-charge SoftComp–I and SoftComp–II, Conducted SoftComp, 1st and 2nd PUCIT Computer Science Contest that constitutes Software, Programming and Quiz competitions.

CONFERENCES, WORKSHOPS AND COURSES, PARTICIPATED/ATTENDED:

Conferences and Workshops

1. Participated, 12th International Conference on Frontiers of Information Technology, (FIT 2014), December 16th – 18th, 2014 at Serina Hotel, Islamabad, Pakistan.
2. Attended, Business Analytics Summit, Punjab Information Technology Board, January 29th, 2014, Arfa Software Technology Park, Lahore, Punjab.
3. Attended, 2nd Computational Science Conference, October 20th – 25th, 2013 at International Islamic University, Islamabad, Pakistan.
4. Attended, International workshop on Visualization in Science and Technology Education, ARTEMiS Visualization Group Massachusetts Institute of Technology, September 14th – 18th, 2013 at Virtual University, Lahore, Pakistan.
5. Attended, International Conference on Science Policies and Restructuring of National Systems of Innovation, October 3rd – 5th, 2012 at COMSTECH, Islamabad, Pakistan.
6. Attended, International Workshop on Computational Methods in Mathematics, May 7th – 9th, 2012 at COMSTECH, Islamabad, Pakistan.
7. Participated, Third International Conference on Computational Collective Intelligence, (ICCCI'11), September 21st – 23rd, 2011 at Academia Moraska, Gdynia, (Poland).
8. Participated, 11th IEEE/WIC/ACM International Conference on Intelligent Agent Technology. (IAT'11), August 22nd – 25th, 2011, Campus de la Doua, Lyon, France.
9. Participated, 5th International Conference on Trust Management Advances in Information and Communication Technology, (TM'11), June 29th – July 1st, 2011, Technical University of Denmark (DTU), Copenhagen, Denmark.
10. Attended, International Workshop "Computational Intelligence in HealthCare", September 21st – 22nd, 2010 at TU/e, Eindhoven, The Netherlands.
11. Participated, 10th IEEE/WIC/ACM International Conference on Intelligent Agent Technology. (IAT'10), August 31st - September 3rd, 2010, York University, Toronto, Canada.
12. Attended, 4th International Workshop on Human Aspects in Ambient Intelligence: Agent Technology, Human-Oriented Knowledge, and Applications (IAT: HAI), August 31st, 2010, York University, Toronto, Canada.

13. Attended, 2nd International Workshop on Collaborative Agents -- REsearch and Development (CARE), August 31st, 2010, York University, Toronto, Canada.

14. Participated, 4th International Conference on Trust Management Advances in Information and Communication Technology (TM'10), June 16th - 18th, 2010, Morioka, Iwate, Japan.

15. Attended, The Joint International Workshop on Trust in Location and Communications in Decentralised Computing, June 15th, 2010, at Iwate Prefecture Citizen's Cultural Exchange Conference Center (AIINA), Morioka, Iwate, Japan.

16. Participated, 12th International Conference on Principles of Practice in Multi-Agent Systems (PRIMA'09), December 13th - 16th, 2009 at Nagoya Congress Center, Nagoya, Japan.

17. Attended, Joint Workshop on Agent Technology for Disaster Management & Intelligent Agents in Sensor Networks and Sensor Web, December 12th, 2009, Nagoya Institute of Technology, Nagoya, Japan.

18. Participated, 16th International Conference on Neural Information Processing (ICONIP'09), December 1st - 5th, 2009 at Windsor Suites Hotel Bangkok, Bangkok, Thailand.

19. Participated, Second International Conference on Cognitive Neurodynamics (ICCN'09), November 15th – 19th, 2009 at Days Hotel Hangzhou, Hangzhou, China.

20. Participated, International Symposium on Secure Computing (SecureCom'09), in conjunction with the IEEE International Conference on Privacy, Security, Risk and Trust, (PASSAT'09), August 29th - 31st, 2009 at Vancouver, Canada.

21. Participated, 9th International Conference on Cognitive Modeling (ICCM'09), July 24th – 26th, 2009 at University of Manchester, Manchester, United Kingdom.

22. Participated, Workshop on Parameter Estimation for Dynamical Systems (PEDS), June 8th - 10th, 2009 at European Institute for Statistics, Probability, Stochastic Operations Research and its Applications (EURANDOM) Technical University Eindhoven, The Netherlands.

23. Participated, 3rd International School "DECOI 2009: Design of Collective Intelligence, February 23rd – 27th, 2009 at the Lorentz Center, Leiden, The Netherlands.

24. Participated, 12th International Workshop on Cooperative Information Agents (CIA'08), September 10th – 12th, 2008 at Czech Technical University, Prague, Czech Republic.

25. Participated, 22nd European Conference on Modeling and Simulation (ECMS'08), June 3rd – 6th, 2008 at University of Cyprus, Nicosia, Cyprus.

26. Attended, 4th International Workshop on Frontiers of Information Technology (FIT'06), December 20th – 21st, 2006, Islamabad, Pakistan.

27. Participated, International Conference on E-Governance: A Catalyst for Change (ICEG'05), December 9th – 11th, 2005, at LUMS, Lahore, Pakistan.

28. Organized, 1st National Conference on Trends and Practices of Free and Open Source Software Technologies (TPFOSST'05), August 18th – 19th, 2005, at PUCIT, Lahore, Pakistan.

29. Participated, CIIT Workshop on Research in Computing Spring 2005 (CWRC'S05), April 2005, at COMSATS, Abbottabad, Pakistan.

30. Organized,1st Student Conference on Computer Science Spring 2004 (SCCS'04), June 22nd – 24th, 2004 at Punjab University College of Information Technology Lahore, Pakistan.

Summer Schools, Courses and Tutorials

1. Presented, Tutorial on "Computational Modeling", December 17th, 2014 at Serina Hotel, Islamabad, Pakistan.

2. Attended, Tutorial on "Complex Network Design From Interaction Data in Complex Systems", December 18th, 2014 at Serina Hotel, Islamabad, Pakistan.

3. Attended, Science Tour 2014: Living in a Digital World - Artificial Intelligence and Visual/Multimodal Computing, January 19th – 25th, 2014 by the German Academic Exchange Service (DAAD) at South of Germany.

4. Attended, Cloud Computing Summit, Punjab Information Technology Board, April 16th, 2013, Arfa Software Technology Park, Lahore, Punjab.

5. Attended, "MAO – Multi-Agent Organization", December19th – 23rd, 2011 at the Lorentz Center, Leiden, The Netherlands.

6. Attended, Masterclass on "Human-Computer Interaction", November 24th, 2011 at VU University Amsterdam, Amsterdam, The Netherlands.

7. Attended, Advanced SIKS-Course on Computational Intelligence, October13th – 14th, 2011 at the Conference Center Hotel Mitland, Utrecht, The Netherlands.

8. Attended, International Workshop on Errors in the Science, September 24th– 28th, 2011 at the Lorentz Center, Leiden, The Netherlands.

9. Attended, Creativity: Meaning, Mechanisms, Models, September 12th – 16th, 2011 at the Lorentz Center, Leiden, The Netherlands.

10. Attended, Summer School on Data Mining, August 29th – September 1st, 2011 at Department of Knowledge Engineering, Maastricht University, Maastricht, The Netherlands.

11. Attended, International Summer School on Intelligent Agent Technology and Web Intelligence, August 26th – 27th, 2011, Campus de la Doua, Lyon, France.

12. Attended, the School for Information and Knowledge Systems (SIKS) on "Learning and Reasoning", June 9th – 10th, 2011 at the Landgoed Huize Bergen, Vught, The Netherlands.

13. Attended, the School for Information and Knowledge Systems (SIKS) on "Information Retrieval", June 7th – 8th, 2011 at the Landgoed Huize Bergen, Vught, The Netherlands.

14. Attended, High Performance Computing: Useful for scientific research? June 1st, 2011 at VU Universiteit, Amsterdam, The Netherlands.

15. Attended, the School for Information and Knowledge Systems (SIKS), "advanced course on Agent Based Simulation", February 21st – 22nd, 2011 at the Conference Center Woudschoten, Zeist, The Netherlands.

16. Attended, 3rd International Workshop, "HART - Human-Agent-Robot Teamwork", December 13th – 17th, 2010 at the Lorentz Center, Leiden, The Netherlands.

17. Attended, Scientific ICT Research Event Netherlands (Next Level) SIREN/NL 2010, November 2nd, 2010 at Veldhoven, The Netherlands.

18. Attended, Masterclass on "Design Science methodology: Principles and Practice", October 15th, 2010 at Conference Center Hoog Brabant, Utrecht, The Netherlands.

19. Attended, Summer School, "Computational Intelligence in HealthCare", September 20th – 24th, 2010 at TU/e, Eindhoven, The Netherlands.

20. Attended, Tutorial on "Identity Management", June 14th, 2010, at Iwate Prefecture Citizen's Cultural Exchange Conference Center (AIINA), Morioka, Iwate, Japan.

21. Attended, International Workshop "Understanding and the Aims of Science", May 31st – June 4th, 2010 at the Lorentz Center, Leiden, The Netherlands.

22. Attended, International Workshop "Integrating Cultures: Models, Simulations and Applications", April 6th – 9th, 2010 at the Lorentz Center, Leiden, The Netherlands.

23. Attended, International Workshop "Formal Theories of Communication", February 22nd – 26th, 2010 at the Lorentz Center, Leiden, The Netherlands.

24. Attended, International Workshop "Philosophy of the Information and Computing Sciences", February 8th – 12th, 2010 at the Lorentz Center, Leiden, The Netherlands.

25. Attended, Tutorial on Game-theory/Mechanism Design/Auctions in Multi-agent Systems, December 13th, 2009, Nagoya Institute of Technology, Nagoya, Japan.

26. Attended, Tutorial on Computational Approaches in Social Computing, December 3rd, 2009 at Windsor Suites Hotel Bangkok, Bangkok, Thailand.

27. Attended, Workshop on Social Computing in Education, August 31st, 2009 at Vancouver, Canada.

28. Attended, Tutorial on Cognitive Modeling with the Neural Engineering Framework, July 23rd, 2009 at University of Manchester, Manchester, United Kingdom.

29. Attended, International Workshop "Brain Waves", June 22nd – 26th, 2009 at the Lorentz Center, Leiden, The Netherlands.

30. Attended, Workshop on "EndNote 2007", March 10th, 2009 at Main Library VU Universiteit, Amsterdam, The Netherlands.

31. Attended, Modeling and Simulating Work Practice with the Brahms Agent Environment, May 2008, at Utrecht University, Utrecht, The Netherlands.

32. Attended, Workshop on "Agent Based Approaches in Economics", January 2008, at Erasmus School of Economics, Rotterdam, The Netherlands.

33. Attended, Almende Summer School on Self Organizing Systems and Agent Architecture, August 2007, Rotterdam, The Netherlands.

34. Attended, Microsoft TechNet and MSDN Workshop in February 2005 held at Pearl Continental Hotel, Lahore, Pakistan.

35. Attended, Computer Science Teacher Training Workshop, CSTTW'04, in August 2004 held at Punjab University College of Information Technology, Lahore, Pakistan.

36. Attended, Workshop on Knowledge Management in January 2004 held at Punjab University College of Information Technology, Lahore, Pakistan.

37. Participated, Summer School in Morphology and Syntax of Urdu for Computational Linguistics during August 13th – 23rd, 2003 held at National University of Computer and Emerging Sciences, Lahore, Pakistan.

38. Attended, Workshop on Software Development in Urdu and Regional Languages in September 2002 held at Karachi Institute of Information Technology, Karachi, Pakistan.

MEMBERSHIP OF LEARNED SOCIETIES

1. Member of *Institute of Electrical and Electronics Engineering* (IEEE) (www.ieee.org)
2. Member of *IEEE Computer Society* (IEEE-CS) (www.computer.org)
3. Member of *Association of Computing Machinery* (ACM) (www.acm.org)
4. Member of *International Network for Social Network Analysis* (INSNA) (www.insna.org)
5. Member *Computer Science Teachers Association* (CSTA) (csta.acm.org)