***CURRICULUM VITAE***

**Professor Dr. Saeed Mahfooz**

**Department of Computer Science**

**Member IEEE**

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# 1. PERSONAL DETAILS

Name : Saeed Mahfooz

Father's name : Z. Mahfuz khan

Sex : Male

Contact address : Department of Computer Science University of Peshawar

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Email : saeedmahfooz@uop.edu.pk; saeedmahfooz@yahoo.com

# 2. EDUCATIONAL BACKGROUND

10/97—07/2001 : **Ph.D. Major area Distributed Multimedia Systems**. School of Computing and Mathematical Sciences Liverpool University John Moores, Liverpool UK.

Current Research: *My main research interest is in the area of Distributed Multimedia Systems that includes: Quality of Service networking, Differential services, Network architectures and QoS routing. Currently concentrating on the Mobile and Wireless networking Issues.*

04/92—04/93 : **Post-Graduate Certificate in Teacher Training,** University of Peshawar, Pakistan.

10/88—01/90 : **MS (CIS)(Computer Information Systems)** Western International University (WIU) Arizona USA .

10/83—10/85 : **BSc Bachelor of Science. Edwards Collage Peshawar.** University of Peshawar, Pakistan.

09/80—04/82 : **Intermediate,** Cadet College Kohat, (NWFP) Pakistan, Certificate awarding body, Board of Intermediate and Secondary Education Peshawar.

05/77—04/80 : **Matriculation,** Cadet Collage Kohat, (NWFP) Pakistan, certificate-awarding body. Board of Intermediate and Secondary Education Peshawar.

# 3. PROFESSIONAL EXPERIENCE:

**10/2015----Present : Professor, Department of Computer Science University of Peshawar.**

## 3.1 TEAM MEMBER Campus Management System (CMS) and Enterprise Resource Planning (ERP) Peshawar University.

* **Peshawar University Departments Computerization i.e. admissions, exams, Hostel management, library management and accounts.**

**9/2010—10/2016 : Chairman Department of Computer Science University of Peshawar.**

**3/2009—10/2015 :Associate Professor, Department of Computer Science University of Peshawar**

## 3.2 Management and administration (Essential Part)

### 3.2.1 **Fiscal responsibility and Budgets**

1. Managing budgets and accounts for the department:
	1. Day to day expenditure such as contingencies
	2. Yearly equipment purchases
	3. Library books purchases
	4. Students scholarships and grants disbursement
	5. Students yearly securities disbursements
	6. Arranging tuition fee for the needy students
2. University Computer Centre in-charge
	1. Running short courses and certificate’s issuance
	2. Managing account and salaries
	3. purchases
3. Purchasing books for the library.
4. Collaborative effort by building partnership with national and International institutions for conference arrangements:
	1. Lums Lahore
	2. City University
	3. Comates
	4. Liverpool John Moores University UK
	5. IEEE
5. Arrange funding for the National and International Conference through different sources such as: total of 1.5 million each from:
6. HEC,
7. Pakistan Science Foundation,
8. IEEE
9. IT board Khyber Pukhtunkhwa
10. Private Universities

## 3.3 Administrative role

1. Developing a team work
2. Regular meeting with administration and staff
3. First and foremost is to keep a congenial working environment where every staff member is satisfied and tension free environment
4. Day today administration students issues
5. Making staff committees for different issues
6. Managing yearly MSc, BS MS and Ph.D. admissions
7. Semester Exams schedule and supervisory staff duty schedule preparation
8. Managing teaching staff schedules
9. Recruitment of teaching staff and non-teaching staff in the department of computer science Peshawar University.
10. Students Hostel allocation
11. Part of CMS and ERP team in Peshawar University.
12. Arranged Seminars and National and International Conferences 4 consecutive times i.e. From 2011 to 2015.
13. Managing department day to day support staff supervision, leave issues

## 3.4 Academic Nature Role

1. Head of the Computer Network group for MPhil/ PhD. Teaching MPhil / PhD research group
	1. MPhil Students: 12
	2. PhD Students : 5
2. Conducted Numerous MS/MPhil/PhD thesis defence in different universities, such as GIK, City University Peshawar and CECOS Peshawar. Malakand university. Abdul Wali khan university Mardan
3. Teaching BCS, M.Sc , MS and Ph.d
4. MSc Course coordination
5. M.Sc, BS Projects supervision
6. Made and approved new academic programs such as 4 years BS in Network and Security. First of its kind in pakistan
7. Incharge UFM, and Scholarships Committees
8. To attend Board of studies, Faculty and Academic council meetings.
9. To organise time table in the department

## 3.5 Member Advance studies and research board / board of studies/Acadmic council

1. CECOS university Peshawar
2. Islamia College university,
3. Abdual wali khan university
4. Mardan, Bacha Khan university,
5. City university Peshawar,
6. Abasyn university Peshawar,
7. Shahaeed Benazir Bhutto University Peshawar
8. Bannu university of Science and technology

## 3.6 Advisory

***:Member HEC for Accreditation of Khushal khan University Karak.***

: Adviser (subject expert) to the Federal Public Service Commission.

: Adviser (subject expert) to the NWFP Public Service Commission.

## 3.7 Subject Expert

: Advisory panel of Universities (subject expert):

1. IMScience Hayatabad,
2. Abdul Wali khan University Mardan,
3. Kohat University of Science and Technology,
4. Swat University
5. Malakand University.
6. Islamia College university Peshawar

:Other Role

: Adviser (subject expert) to the Federal Public Service Commission.

: Adviser (subject expert) to the NWFP Public Service Commission.

Responsibilities included:

1. Interviewing Candidates for the post of lecturers to teach computing subjects in NWFP Colleges.

2. Also helping the commission by interviewing the candidates, to be appointed as programmers in the government and semi government departments.

## 3.8 Advisor Technical board

05/92—07/97 : Advisor to the board of Technical Education NWFP.

 Responsibilities included:

1. Assisting the Board to introduce Computer Courses for DIPLOMA and other levels.
2. Assisting in updating courses and making them according to the requirements of the Industry.
3. Conducting inspections of private organisation in NWFP and other areas of the country that wants to affiliate with the board. We have to check their computer facilities, libraries, and classrooms.
4. Conducting the examinations.
5. Attending meetings and making polices for granting affiliations and courses structure.

**12/2002—2/2006** **:Assistant Professor**, College of Computer science King Khalid University ABHA Saudi Arabia.

Other responsibilities include:

1. **Coordinator IS department**
2. Member Curriculum development and revising committee
3. Member seminar organization committee
4. Member for the staff selection and recruitment committee
5. Teaching:

**09/2001—11/2002** **: Assistant Professor**, Department of Computer Science University of Peshawar.

**10/97- 08/2001** : Research Assistant / Lecturer (Distributed Multimedia Systems Group) School of Computing and Mathematical Sciences Liverpool John Moores University, UK. Responsibilities include:

1. Teaching, Multimedia and Network Module C++ programming to software engineering, Computer Architecture to B.Sc. and M.Sc. students.

2. Labs demonstrations for B.Sc. HND, (C programming).

1. Tutorials

**09/95—09/97** **: Assistant Professor**, Department of Computer Science University of Peshawar.

Teaching MSc students in Previous and Final year.

Subjects taught:

* Communication and Networks,
* Computer Architecture,
* Systems Analysis and Design, and
* Various Languages

**10/96—07/97** : Head of the MSc Computer Science Department (Part time) Al-khair University (NWFP) Peshawar Branch.

Responsibilities included:

1. Teaching various subjects (C and Pascal) to MSc students.

1. Labs and Tutorials supervisions.
2. Staff selection and Recruitment.
3. Courses selection students admission and purchases

**07/87—08/95** : Lecturer Department of Computer Science University of Peshawar.

 Responsibilities included:

1. Teaching Computer architecture, Systems analysis and design programming and C language.
2. Supervision of students in labs and tutorials.
3. Examination Supervision and Invigilation.
4. Project supervision.
5. Viva examination for M.Scand B.Sc students

## 3.9 VISITING PROFESSOR

1992. Sarhad University Peshawar, Responsibilities Include: Teaching (Data Communication and Networks) to MIT, MCS students, Other responsibilities curriculum Development.

## 3.10 Member DTRC (Departmental Tenure Review Committee)

1. Shahed Benaner Bhutto University Peshawar

2. Islamia College University Peshawar

# 4. CONFERENCE ORGANISATION

08/2013 : Conference Chair/ Chief organizer, ETIT 13 Symposium on Emerging Technologies in IT 26th to 27th August 2013, Baragali Pakistan

08/2012 : Conference Chair/Chief organizer, ETIT 12 Symposium on Emerging Technologies in IT 25th to 28th August 2012, Baragali Pakistan

11/2011 : Conference Chair/Chief Organizer IEEE International Conference on Computer Networks and Information Technology (ICCNIT) 11th to 13 July 2011, Baragali Pakistan. This was first ever conference IEEE conference organised by Peshawar university. Total of 52 papers were uploaded to the IEEE digital library.

## Activities involved in all three conferences

1. **This was collaborative effort by building partnership with national and International institutions for technical support:**
2. Liverpool John Moores University UK
3. IEEE
4. Lums Lahore
5. City University
6. Comates
7. **Fund raising, total of 1.5 million from, sources such as:**
	* 1. HEC,
		2. Pakistan Science Foundation,
		3. IEEE
		4. Private Universities
		5. IT board Khyber Pukhtunkhwa
8. Website development www.iccnit.com
9. Arranging Chief Guest and Key note Speakers
10. Boarding and lodging in Baragali summer campus
11. Transport facilities
12. Papers collection and Blind reviews
13. Conference proceeding publication

06/2001 :Member organizing committee member for the ‘PGNet’ 2nd Annual Post Graduate Symposium on the convergence of Telecommunication Networking and Broadcasting, Liverpool John Moores University UK 2002.

06/2000 :Member organizing committee member for the ‘PGNet’ 1st Annual Post Graduate Symposium on the convergence of Telecommunication Networking and Broadcasting, Liverpool John Moores University UK 2001.

06/94 :Stage Secretary for National Symposium in Artificial Intelligence, and Comparative linguistics University of Peshawar.

# 5. PUBLICATIONS

## 5.1 JOURNAL

1. “**ANTSC: An Intelligent Naïve Bayesian Probabilistic Estimation Practice for Traffic Flow to Form Stable Clustering in VANET”. IEEE Access**, AMJAD MEHMOOD, AKBAR KHANAN, ABDUL HAKIM H. M. MOHAMED, SAEED MAHFOOZ, HOUBING SONG, AND SALWANI ABDULLAH. February 28, 2018. Digital Object Identifier 10.1109/ACCESS.2017.2732727 (IF–3.24)
2. **“A Comparative Study of Scenario-Driven Multi-hop Broadcast Protocols for VANETs” Vehicular Communication,** 2018. S. Latif, S. Mahfooz, B. Jan, N. Ahmad, Y. Cao, and M. Asif doi.org/10.1016/j.vehcom.2018.01.009. (IF – 5.10)
3. **“Industrial Internet of Things based Efficient and Reliable Data Dissemination Solution for Vehicular Ad hoc Networks” Wireless Communication and Mobile computing,** 2018. S. Latif, S. Mahfooz, N. Ahmad, B. Jan, H. Farman, M. Khan, K. Han (IF – 1.86)
4. **“Multicriteria Based Next Forwarder Selection for Data Dissemination in Vehicular Ad Hoc Networks Using Analytical Network Process” Mathematical Problems in Engineering,** Volume 2017. doi.org/10.1155/2017/4671892 S. Latif, S. Mahfooz, B. Jan, N. Ahmad, H. Farman, M. Khan, & H. Javed (IF – 0.86)
5. Rebirth of Augmented Reality – Enhancing Reality via Smartphones Bahria University Journal of Information & Communication Technologies Vol. 8, Issue 1, April 2015 Page 110 ISSN – 1999-4974 Akif Khan, Shah Khusro, Azhar Rauf, Saeed Mahfooz
6. :“**Issues and Challenges in BOOK IR**” Information-An Interdisciplinary Journal, Vol 17 No. 5, 2014. Shah Khusro, Irfan Ullah, Azhar Rauf and Saeed Mahfooz. (Impact factor 0.358)
7. **:“Variable K-Anonymity: AN Approach for Minimizing Data loss and maintain useful of data”** NED University Journal of research –Applied Sciences, Vol. XI, No. 2, PP. 27-36, 2014. Fatima Liaqat, Azhar Rauf, Shah Khusro and Saeed Mahfooz. (Y. Rated by HEC)
8. **:“CLAM: Cross-layer Localized Authentication Mechanism based on Proxy MIPv6 and SIP in Next Generation Networks”** . Journal of Communication, Vol. 9, No. 2, PP. 144-156, 2014. Muhammad Zubair, Kong Xiangwei, Saeed Mahfooz and Irum Jamshed. (Impact factor 2.06)
9. **:”Cross-layer Localized Mobility Management Based on SIP and HMIPv6 in Next Generation Networks**” Journal of Communications Vol. 9, No. 3, PP. 217-225, March 2014 Muhammad Zubair, Xiangwei Kong, and Saeed Mahfooz. (Impact factor 2.06)
10. :**"DMAM: Distributed Mobility and Authentication Mechanism in Next Generation Networks”.**   Security and Communication Networks June 2014. DOI: 10.1002/sec.1041 Muhammad Zubair, Kong Xiangwei and Saeed Mahfooz (Impact factor 0.43)
11. :“**SIDP: A Secure Inter-Domain Distributed PMIPv6**. International Journal of Information and Electronics Engineering, Vol. 4, No. 2, March 2014 Muhammad Zubair, Xiangwei Kong, Saeed Mahfooz, and Irum Jamshed
12. :“**Impact of Network Scalability on the performance of RIP and IGRP for Email Services**. Journal of Engineering and Applied Sciences, January-June 2013 Vol:32 No. (1). Inayat Ullah, Shah Khusro, Azhar Rauf and Saeed Mahfooz. (X rated by HEC)
13. **:“Enhanced Authentication Scheme for Proxy Mobile IPv6,** Life Science Journal, 2014; 11(3s), Kanwal Imran, Saeed Mahfooz, Azhar Rauf, Shah Khusro, (Impact Factor 0.16)
14. **:“Relevance of Tags to Images: A brief Survey of Major Parameters and Evaluation Measures,** Life Science Journal, 2013; 10(12s), Fauzia Jabeen, Shah Khusro, Saeed Mahfooz, Azhar Rauf. (Impact Factor)
15. **:“Navigating and Browsing Linked Open Data: State-of-the-Art,** Life Science Journal, 2013; 10(11s), Shah Khusro, Akif Khan, Saeed Mahfooz, Azhar Rauf and Shaukat Ali. (Impact Factor 0.16)
16. **:“A Study of file System objects, Metadata, Life Science** Journal, 2013; 10(11s). Shah Khusro, Syed Rehman Mashwani, Azhar Rauf, Saeed Mahfooz and Shaukat Ali. (Impact Factor 0.16)
17. **:“The Performance of Map reduce over the varying Nature of Data:** Life Science Journal, 2013; 10(4). Azhar Rauf, Adnan Amin, Saeed Mahfooz and Shah Khusro. (Impact Factor 0.16)
18. **:“Unleasing sensor Data on Linked Open Data-Story So Far; Life Science** Journal, 2013; 10(4). Shah Khusro, Shaukat Ali, Azhar Rauf, Saeed Mahfooz, Syed Rehman, Akif khan and Fauzia Jabeen. (Impact Factor 0.16)
19. **:“The Effect of CJM System on IP Packet Size in the Transmission of Real Time Applications”.** Middle-East Journal of Scientific Research 13 (4): 518-521, 2013. Ikram Ud Din, Saeed Mahfooz, Huma Javed and Muhammad Zeeshan
20. **:“A System for Buffer Management in Voice Communication”.** World Applied Sciences Journal 21 (9): 1305-1308, 2013. Ikram Ud Din, Saeed Mahfooz, Noor ul Amin and Muhammad Zeeshan.
21. **:“ Enhanced K-Mean Clustering Algorithm to Reduce Number of Iterations & Time Complexity**” Middle-East Journal of Scientific Research 12 (7): 959-963, 2012 . Azhar Rauf, Sheeba, Saeed Mahfooz, Shah Khusro and Huma Javed.
22. **:“ Natural Language Interface for Sensor Networks Integrity Proof**” World Applied Sciences Journal Vol. 19 issue 11 2012: p. 1563-1567. Shaukat Ali, Huma Javed, Azhar Rauf, Saeed Mahfooz, and Shah Khusro.
23. **:“Self-Constructing Fragile Watermark Algorithm for Relational Database Integrity Proof**” World Applied Sciences Journal Vol. 19 issue 9 2012: p. 1273-1277. Sajid Iqbal, Azhar Rauf, Saeed. Mahfooz, Shah Khusro and Sajid H. Shah.
24. **:“A handoff using Guard Channel Scheme (HGCS) for Cognitive Radio Networks**” Global Journal of computer science and Technology, USA, Vol. 11 Issue 20 Ver. 1.0, 2011: p. 19-23. Madeha Aman, Dr. Saeed. Mahfooz, and Waheed Ur Rehman.
25. **:“A Frame work For Measuring and Improving Data quality”.** PUTAJ Peshawar University Teacher Association Journal. Vol. 18, 2011. Atif Khan, Azhar Rauf, Shah Khusro, and Saeed Mahfooz
26. **:“Towards Better Ranking of Search Results in Social Book Marking Environments”.** PUTAJ Peshawar University Teacher Association Journal. Vol. 17, 2010. Shah Khusro, Azhar Rauf, and Saeed Mahfooz.
27. **:“Mathematical Models for Cell-Plus-Innocent Security Techniques”.** PUTAJ Peshawar University Teacher Association Journal. Vol. 17, 2010. Azhar Rauf, Sareer Badsha, Shah Khusro, Saeed Mahfooz, and Huma Javed.
28. **:“Using Mobile Phones for Quizzes in M-Learning Environments”.** PUTAJ Peshawar University Teacher Association Journal. Vol. 17, 2010. Haider Ali, Saeed Mahfooz, Azhar Rauf, and Shah Khusro.
29. **:“Performance Improvement of UDP and TCP Traffic by CJM Algorithm in Voice Transmission**” Global Journal of computer science and Technology, USA, , Vol. 10 Issue 7 Ver. 1.0 September 2010: p. 19-23. Ikram Ud Din, S. Mahfooz, and Muhammad Adnan.
30. **: “Analysis of the Routing Protocols in Real time Transmission**”. Global Journal of computer science and Technology, USA, Vol. 10 Issue 5 Ver. 1.0 July 2010: p. 18-22 Ikram Ud Din, S. Mahfooz. and M. Adnan.
31. **: “PIM and semantics Desktop-Past, Present and the future**”. Journal of Science and Technology, Peshawar university. Issue 34 No.2 p. 67-76, 2010. Shah Khusro, Azhar Rauf, Saeed Mahfooz and A Min Tjoa.
32. **: “Achieving K-Anonymity without Generalization and Suppression**”. Journal of Science and Technology, Peshawar University Issue 34 No.2 p. 59-66, 2010. Azhar Rauf, Saeed Mahfooz, Shah Khusro, and Shabir Ahmed.
33. **: “Performance evaluation of different Ethernet LANs connected by switches and hubs”.** European Journal of Scientific Research, 2009. 3(37): p. 261-270 Ikram Ud Din, S. Mahfooz and M. Adnan. (ISI Master List accepted upto 2009)
34. **: “A Survey of IT Skills of the Teaching Staff at the University of Peshawar”,** Journal of Humanities and social science University of Peshawar,Vol no XVII, issue 2, 2009. Sareer Badshah, Gohar Zaman, Saeed Mahfooz. (X rated by HEC)
35. **:“An Investigation of Professional and Technical Competencies of Agriculture Officers in NWFP Pakistan.** Sarhad J. Agriculture Vol 24, No 1, 2008. Muhammad Zafarullah Khan, Khalid Nawab, Javid Ullah Ibrahim Khattak and Saeed Mahfooz. (X rated by HEC)
36. **:“Computer Skills: Assessment of the Professional competencies of Agriculture officers in NWFP, Pakistan”.** Sarhad J. Agriculture Vol 24, No 3, 2008. Muhammad Zafarullah Khan, Khalid Nawab, Javid Ullah Ibrahim Khattak and Saeed Mahfooz. (X rated by HEC)
37. **:“Mechanisms for Supporting Differential Services in the Internet”.**  Journal of Engineering and Applied sciences Engineering University Peshawar Pakistan, Vol 21. No 2. July-December 2002 issue. Saeed Mahfooz, Madjid Merabti and Rubem Pereira.(X rated by HEC)
38. **:”Multimedia Applications in Differential Services”** Journal of Engineering and Applied sciences Engineering University Peshawar Pakistan, VoL 22 No 1. January-June 2003 issue. Saeed Mahfooz, Madjid Merabti and Rubem Pereira.(X rated by HEC)
39. : “**Quality of Services architecture for Differential Services** **”** PUTAJ Peshawar University Teacher Association Journal. Issue 2002. Saeed Mahfooz, Madjid Merabti and Rubem Pereira. (Before 2005)
40. **:”Relative Bandwidth Sharing architecture for Distributed Multimedia systems”** PUTAJ Peshawar University Teacher Association Journal. Issue 2002. Saeed Mahfooz, Madjid Merabti and Rubem Pereira. (Before 2005)
41. **:”Implementation of** **proposed prototype architecture”** Scientific Khyber ` Journal, No. 2 July December Issue 2002. Saeed Mahfooz, Madjid Merabti and Rubem Pereira. (Before 2005 with editorial board)

## 5.2 CONFERENCE PROCEEDINGS

1) Linked File System: Towards Exploiting Linked Data Technology in File Systems IEEE International Conference on Open Source Systems & Technologies (ICOSST-2016)IEEE International Conference on Open Source Systems and Technologies . Dec 10th 2016 Syed Rahman, Mashwani, Shah Khusro, Azhar Rauf and Saeed Mahfooz.

2) “Compressed Bitmaps Based Frequent Itemsets Mining on Hadoop”, 10th International Conference on Informatics and Systems (INFOS '16) May 2016. Aref Saeed, Azhar Rauf, Shah Khusro and Saeed Mahfooz

**3) :Algorithm for an Improved Macro Femto handover Decision in Mobile WiMAX”.** 15th Annual PGNet 15 symposium on the convergence of Telecommunication Networking and Broadcasting, Liverpool John Moores University UK, 23rd and 24th June 2014. Saeed Mahfooz, and Abeera Ilyas.

**(4) :Update Query over Encrypted Data** 2011 International Conference on Computer Networks and Information Technology 11th to 13th July 2011, Shaukat Ali ;Azhar rauf; Saeed Mahfooz;

(5) **:Handoff Delay in Cognitive Radios- A Concept paper on Utilization of Guard Channels** 2011 International Conference on Computer Networks and Information Technology 11th to 13th July 2011, Madeha Aman; Saeed Mahfooz,; Waheed ur Rehman;

**(6) :Providing end-to-end QoS in Next Generation Networks (NGNs) using combined SIP HMIPv6 (CSH)** 2011 International Conference on Computer Networks and Information Technology 11th to 13th July 2011, Zubair, Muhammad;Mahfooz, Saeed; Khan, Attaullah; ur Rehman, Waheed;

(7) **:Evaluation of voice Cell Jitter and Delay for ATM Network Using a Jitter Management Algorithm”.** 11th Annual PGNET11 symposium Liverpool John Moores University UK, 21 and 22nd June 2010. Saeed Mahfooz, Ikram ud din.

(8) :**Access control Mechanism for web database by using parameterized cursor”.** Busan Korea Futuretec2010 21st to 23rd May 2010. Zahoor Jan, Mehmood Shah, Azhar Rauf and Saeed Mahfooz.

(9) :”**Using Mobile Phones for Quizzes in m-Learning Environments**”, 1st National Conference on Security, Computing, & Communication, Bannu university Pakistan, Haider Ali, Dr. Saeed Mahfooz, 23rd and 25th May. 2008.

(10) **:’’ A fully Automated Violation Detection Infrastructure”.** NCICT2007. National Conference on Information and Communication Technologies, Bannu, NWFP, Pakistan. June 09 2007. Umer Farooq, Saeed Mahfooz, Wajeeha Rehman, and Waheed Ur Rehman.

(11) **An Efficient Resource Prediction Model for Mobile Grid Environments”.** 6th Annual Post Graduate Symposium on the convergence of Telecommunication Networking and Broadcasting, /IEE / EPSRC. Liverpool John Moores University, UK**. Umar Farooq, Saeed Mahfoozand Wajeeha Khalil. 26th-27th June 2006.**

 (12):**’’Quality of Service Architecture based upon Differential Services Techniques”** The Seventeenth National Computer Conference King Abdul Aziz University Madina, Saudi Arabia. Dr. Saeed Mahfooz, Attaullah Khan. 5-8th April 2004.

13) : “**Integrated Differential Services Architecture”** Second IEEE, International Symposium on Communication Systems Networks and Digital Signal Processing, /IEE / BCS / EURASIP. Bournemouth-UK. Saeed Mahfooz, Madjid Merabti and Rubem Pereira. 18-20th July 2000.

 (14): “**Relative Bandwidth Sharing (RBS) Differential Architecture”** 'PGNet' 1st annual Post Graduate Symposium on the convergence of Telecommunication Networking and Broadcasting, /IEE / EPSRC. Liverpool John Moores University, UK. Saeed Mahfooz, Madjid Merabti and Rubem Pereira. June 2000

(15): **“Multimedia Applications in Differential Services”** IEEE International Workshop on Distributed Computing, Communication and Applications, IWDCCA-2000 / IEICE / IPSJ. International Islamic University Islamabad, Pakistan. Saeed Mahfooz, Madjid Merabti and Rubem Pereira. May 2000.

(16):**”Differential services Architecture”**. Contributed talk BCTCS 16, British Colloquium for Theoretical Computer Science, University of Liverpool, UK. Saeed Mahfooz, Madjid Merabti and Rubem Pereira. 10-12 April, 2000.

(17): “**Mechanisms for Supporting Differential Services in the Internet”** PROCEEDINGS OF GEMISIS TECHNICAL SYMPOSIUM /IEE /BCS Multimedia-network-technology. University of Salford, UK. Saeed Mahfooz, Madjid Merabti and Rubem Pereira. May 1999.

## 5.3 Book Chapter

Computational and Statistical Methods in Intelligent Systems Springer.

Towards Smartphone-Based Navigation for Visually Impaired People

 Izaz Khan, Shah Khusro, Irfan Ullah, and Saeed Mahfooz

# 6. TALKS AND PRESENTATIONS

1. *“***The ICT Infrastructures - A historical perspective, Dept. of Computer Science, University of Peshawar,** Symposium on E-Government, Standards Infrastructure and Services, UST Bannu, 7 to 8th February 2018.
2. **“IPv4 interoperability with IPv6”**Seminar, City University of Science and technology Peshawar 24th September 2007”.
3. **“Network recent trends and techniques”**Seminar, Kohat University of science and technology May 2005.
4. “**Differential Services in the Domain Network”** Seminar,Department of Computer Science King Khalid university ABHA. Saeed Mahfooz, 7th April 2003.
5. **Mechanisms for Supporting Differential Services in the Access Network”** Post-Graduate Research Conference, Liverpool John Moores University, UK. Saeed Mahfooz, Madjid Merabti and Rubem Pereira. March 2001.
6. : “**Integrated Differential Services Architecture”** PGNet' 1st annual Post Graduate Symposium on the convergence of Telecommunication Networking and Broadcasting, IEE/EPSRC. Liverpool John Moores University, UK. Saeed Mahfooz, Madjid Merabti and Rubem Pereira. June 2000.
7. : **“Multimedia Applications in Differential Services”** IWDCCA-2000 International Workshop on Distributed Computing, Communication and Applications /IEEE /IEICE/IPSJ. International Islamic University Islamabad, Pakistan. Saeed Mahfooz, Madjid Merabti and Rubem Pereira. May 2000.
8. :**”Differential services Architecture”**. Contributed talk BCTCS 16, British Colloquium for Theoretical Computer Science, University of Liverpool, UK. Saeed Mahfooz, Madjid Merabti and Rubem Pereira. 10-12 April, 2000.
9. : “**Mechanism for Differential services in the Internet**” Post-Graduate Research Conference, Liverpool John Moores University, UK. Saeed Mahfooz, Madjid Merabti and Rubem Pereira. March 1999.
10. : “**Differential Services in the Internet”** Post-Graduate Research Conference, Liverpool John Moores University, UK. Saeed Mahfooz, Madjid Merabti and Rubem Pereira. March 1998.
11. : “**Mechanisms for Supporting Differential Services in the Internet”.** GEMISIS TECHNICAL CONFERENCE /IEE /BCS Multimedia-Network-Technology. University of Salford, UK. Saeed Mahfooz, Madjid Merabti and Rubem Pereira. May 1999.
12. : Presentation for BSc. Final year “**Internet Architecture today and tomorrow**” Saeed Mahfooz.
13. : Presentation to MSc. Students. Liverpool John Moores University “**Differential Services** ”, Saeed Mahfooz.
14. : Presentation to MSc. Students. Liverpool John Moores University “**Internet Protocol IPV4 and IPV6** ”, Saeed Mahfooz.

# 7. NEW CURRICULUM DEVELOPMENT

BS (Network and security) : Recommended and approved Network and Security Curriculum 4 years degree program in computer science department university of Peshawar. First of its kind in Pakistan

BS (Software Engineering) : Recommended and approved Software Engineering 4 years degree program Curriculum in computer science department university of Peshawar

## 8.1. OLD CURRICULUM UPGRADATION

MSc previous : Added a new Module (Communication and Networks).

MSc Computer Science : Member Board of studies committee, to upgraded the old syllabus of MSc University of Peshawar

BSc Computer Science : Member Curriculum development for college computer science King Khalid university and Information systems

BSc Computer Science : Member Board of studies committee, to upgrade the old BSc syllabus

Technical Board Peshawar: To validate the computer courses offered by the board i.e. diploma and certificate courses.

# PROJECTs

• Part of Campus management Solution team Peshawar University 40 millions

• Team ERP team in Peshawar University.

## 9.1 Current project PC1 approved

2018 Team member. Provable Security for Block chain technologies (funding HEC 20 millions)

## 9.2. European Union Project

2006 Member of EU-Asia link Program (could not materialize)

## 9.3 UNITED NATIONs

01/91—02/92 :UNHCR project that conducted socio-economic survey of Afghan refugees in Peshawar for their repatriation back to their country.

 Responsibilities included:

1. To head a team of programmers to process the data.
2. To make a data-base of the refugees in different camps in Pakistan

3. Making statistics of different types and representing them in graphical form.

# 10. HONOURS AND AWARDS

04/97—10/98 : Ministry of Education Islamabad Pakistan.

Central Overseas Training Scholarship (COTS)

# 11. MEMBERSHIP OF PROFESSIONAL BODIES

: Member Institute of Electirical and Electronics Engineers (IEEE)