Curriculum Vitae

Name: Sami Mohamed Sharif
Title: Professor
Address: University of Khartoum, Faculty of Engineering, Department of Electrical and Electronic Engineering, (DEEE), P. O. Box 321, Khartoum– Sudan
Tel: Office: +249-120940204; Home: +249-155144886; Mobile: +249-91230760
Fax: +249-1-83771516
E-mail: smsharif@uofk.edu
Website: http://staffcv.uofk.edu.sd/engineering/smsharif

Academic Qualifications

Ph.D.
- Specialization: *Electrical Engineering*
- Data of award: *1988*
- University: *University of Khartoum, Sudan*
- Title: *Effect of Dust Storms on Microwave signal Propagation*

B.Sc. (Honor)
- Specialization: *Electrical Engineering*
- Class: *First Class (Honor)*
- Data of award: *1980*
- University: *University of Khartoum, Sudan*

Professional Societies and Institutes Memberships
- *Member*, Institute of Electrical and Electronics Engineers, *MIEEE*, USA (1985)
- *Member*, Sudan Engineering Society, *FMSES* (1988)
- *Associate*, International Centre for Theoretical Physics, *ICTP*, Trista, Italy (1998)
- *Member* , Sudanese Society for Libraries and Information, *SSLI*, (2005)

Awards

- ***University Prize*** for best performance in third year Electrical Engineering, University of Khartoum, 1979
- ***Sayed Mirghani Hamza prize*** for the best results in the final year B.Sc. examinations, in the Department of Electrical Engineering, University of Khartoum, 1980

Training Courses

Attending M.Sc. Course on Telecommunications and Information Systems
UK, University of Excess, October 1988-January 1989

Teaching Post Occupied

- *Professor:* Department of Electrical and Electronic Engineering, DEEE, University of Khartoum 2007-present
- *Associate Professor*: Department of Electrical and Electronic Engineering, DEEE, University of Khartoum 1996– 2007
- *Assistant Professor*: Department of Electrical and Electronic Engineering, DEEE, University of Khartoum 1988 – 1996
- *Teaching Assistant*: Department of Electrical and Electronic Engineering, DEEE, University of Khartoum 1981 – 1987

Fields of Interest and Research:

- Networking
- Switching and teletraffic engineering
- Radio wave propagation and Electromagnetic
- Information Technology and Communications
- Electronic Systems
- ICT Economics and regulation

Computer Experiences and Skills

Good experience in the following

- Operating System: *Linux, and windows*
- Programming Languages: *BASIC, PASCAL, C, C++, Visual BASIC, PHP*
- Database: *mysql, postgresql*
- Prewritten software: *Word-processing, spread sheets, etc.*
- Many Open Source Software Applications

Teaching Experiences

Courses Taught at undergraduate level

1. Introduction to Computer Systems
2. Semiconductor Electronic and Devices

3. Computer Visualization in Engineering
4. Analogue Electronics
5. Digital Electronics
6. Measurement and Instrumentation
7. Microprocessors and Interfacing
8. Signal and systems
9. Data Communication and Computer Networks
10. Communication Systems and Engineering
11. Switching and Teletraffic Engineering
12. Computer Networks
13. Computer Networks Security
14. Antenna and Radio propagation
15. Digital Communication
16. Electromagnetic Theory
17. Networking and Networking Programming

Courses Taught at Graduate Level
1. Principles of Switching Systems
2. Probability theory of communication engineering
3. High speed and broadband Networks
4. Computer Network Modeling and Simulation
5. Radio and Microwave Engineering
6. Future Trends in Telecommunication Management

Administrative Posts Occupied
- *Director,* Information Technology and Network Administration 2006–To-present
- *Director,* Information Network Administration 2004-2006
- *Project Manager,* University of Khartoum Information Network Project 2001-2003
- Head, Electrical Engineering Department 1996 to 2003
- *Chairman,* Faculty of Engineering & Architecture Computer Committee 1988-1990, 1991-1992

University Committee and Boards
1. *Member,* University Planning Committee   2007–To-present
2. *Member,* University of Khartoum Computer Centre Council   1990-2004
3. *Member ,* University Computer Centre Executive Committee   2001-2004
4. *Chairman,* Department of Electrical Engineering Academic reform Committee 2000-2002

5. Member, degree structure and curriculum committee for the M.Sc. course on Telecommunication and Information system 1993-1995
6. *Member*, Faculty Board, Faculty of Engineering & Architecture, by virtue of examination committee chairmanship, 1988-1989, 1991-1992
7. *Member*, the academic committee to re-evaluate of academic assessment regulation, Faculty of Engineering & Architecture, 1990-1991
8. *Member*, Faculty of Engineering & Architecture examination committee, representing electrical engineering department1986-1987
9. *Member* of many other technical committee 1995-2007

Other University Activities
- Designed and supervised the implementation of the University of Khartoum Information Network Upgrading   2006-2007
- Designed and supervised the implementation of the University of Khartoum Information Network   2000-2003
- Co-editor of the Faculty of Engineering & Architecture Bulletin, for the academic year 1987-1988   1987-1988
- Deigned software for the automation of the examination results, Faculty of Engineering & Architecture   1983-1987
- Designed and supervised the implementation of the following Systems
    - U. of K. web site
    - U. of K. email System
    - Electronic Thesis and Dissertations
    - Graduate College Information System
    - Human Resources System
    - Students On line registration systems
    - U. of K. Digital Library
    - Electronic Document Exchange System
    - Document Achieve System
- Member of the committees to design and supervised the implementation of
- Sudanese Engineering Virtual Library 2005-2007
- ·Agricultural Science Virtual Library 2003-2007
- Participated in many administrative and technical activities in the University 1985-2007

Post Graduate Experiences
Ph.D. Supervised
1. Dynamic Load Balancing In Parallel Algorithms Using MPI Mustafa Babiker EL-Siddig Mustafa Hamad, 2009
2. Effect of Network Characteristics on Self-Similarity Traffic PhenomenaElTayeb Ahmed Hassan, 2007

3. Analysis and Modeling of Internet Traffic Over Frame Relay for Bandwidth Management And Optimization, Huda Ahmed Elhag   2006
4. Arabic Speech Recognition Using Neural Networks, Mannal Mohamed ElObied 2006
5. Impact of Network Congestion on Video Transmission Over ATM Network "Virtual Clock Algorithm as a congestion Control Tool", ElTayeb Omer ElTayeb   2005
6. Using Artificial Neural Network (ANN) For Space Image Recognition, Adil M. El Sinnari 2005
7. Troposheric Parameters For Communications In Sudan: A Radioclimatical Approach, ElTayeb Musa Mustafa 2000
8. Modeling of flat and Corner reflector Antenna at 3 GHz frequency , Mohamed AbuElawienat   1998

Ph.D. Under Supervision
- Software Model For Engineering E-Learning, Yassir ElTigani
- Remote Application Control Framework For Video on Demand Service Over WLAN, Isam Mohamed Adam Osman
- Perception of Sudan Memory Institutions Professionals to Digital Technology , Rafaa Ashamalla Ghobrial

M.Sc. Supervised
1. End-to-end QoS in SIP Session, Zienab Osman, 2008
2. Web Management of SER SIP Proxy; Hyam Elkaris, 2008
3. Open Source Video Conference System; Nagla Mohamed, 2007
4. Characteristics of Radio Wave Propagation Through Trees at 2.1 GHz for UMTS Systems, Mohamed Suleiman Mohamed, 2007
5. University of Khartoum Intranet: Design and Services, ElArgam ElRaieh ElSayied, 2006
6. Printing Machine Computer Based Control System, Sayed Haroon Shadad, 2004
7. Image Recognition Using Artificial Neural Networks , Tilal Elsheikh Ahmed Osman, 2004
8. Linux Based Personal Computer Router, Abuagala Babiker Mohamed Babiker, 2004
9. Windows Linux Domains Interface, Elrashied Ismail Mohmoud Zaied, 2003
10. Parallel Computation using Message Passing Interface (MPI), Salma Elamin Hamoda, 2003
11. Using Artificial Intelligence tools for LAN Design, Mohammed Galal Abdalla Ali, 2003
12. Microprocessor Laboratory Manual, Khalid A/Mageed Hag Elamin, 2003

13. Internet Backbone Network Traffic in Sudan, Hiba Mohammed Osman, 2003
14. Integration of Digital Mapping and Data for Telephone Networks, Zahier Elsir Gsim Elsied, 2002
15. Designing a Secure Frame Relay VPN. Case Study: Sudanese Banks Network, Asim Abdel Wahab Abdrabu Mohamed, 2002
16. Telephone Traffic Measurements, Siraj Eldin Abdalla Fadl Elmula, 2002
17. Design of a Firewall, Mustafa Abdel Hafiz Wadatalla, 2002
18. Electron Spin Resonance Spectrometer Interfacing, Abdelmoniem Elobied ElHussien, 2002
19. Neural Networks and their Parallel Implementation, Mustafa Babiker Hamad, 2002
20. Computer Systems Laboratory Design, Muhammed A/muneim Alkarouri, 2002
21. Structured Analysis of Real time System with Application to a Small Exchange Control, using SDL Notations, Magdi Mohammed Sharief, 2001
22. Software Development Methods for Web-Based Applications Design, Ahmed Salah Eldin A/Allah   , 2001
23. Network Monitoring, Isam Mohamed Osman Adam, 2000
24. Simplification of Logic Networks for VLSI Design, Nagla Osman Mohamed, 2000
25. New Version of The Tracking Analog-to-Digital Converter, Mohamed A. A. ElMaleeh, 1998
26. Performance Analysis of Telephone Network: Khartoum local Area as a Case of study, Amani ElBashier, 1997
27. The CSMA/CD Protocol: Modeling, Simulation and Modification for Real Time Applications, Iman Dafalla Abdalla, 1995
28. Computer models for Microwave Radio Relay Links, Omer Osman, 1994

M.Sc. Under Supervision
1. Handoff Delay in SIP Based UMTS, Mohamed Mahmoud Sharif
2. Mobile Wireless System Interworking with 3G and Packet Aggregation for Wireless LAN, Osama Mohamed Khier
3. Microwave Signals Attenuation and Cross Polarization Due to Rainfall in Sudan, Abuzar Bashier Mohamed
4. Mobility Routing and Firewall Issues Using IPv6, Mohamed Mustafa Ibrahim
5. VoIP: Interfacing WANS to PSTN Using Open Source Systems. Abdelrahim Drar

M.Sc. Courses Coordination
1. M.Sc. Course on Telecommunication and Information systems, 1991-1993
2. M.Sc. Course on Networking and Computer Architecture, 1995-1996

Professional Experience and Activities

- Member, technical committee for the recommending Telecommunications Polices in Sudan: Nov 2007 – May 2008, Sponsor: National Telecommunication Cooperation, Activities: Define the strategies and requirements, Define the function of the regulatory body, Set directive for regulation and securit
- Member, technical committee for the future Telecommunications Network in Sudan : March 2007 – May 2007; Sponsor: National Telecommunication Cooperation; Activities: Define the strategies and requirements, Define the function of the regulatory body, Set directive for regulation and security
- *Chairman*, National Record Office ICT Technical Team: September 2006 – January 2007; Design the office new building network; Design the records management software (open source); Supervised the implementation of the network and software
- *Member*, Technical Team for the Military Information Network, Ministry of Defense: January 2006 to April 2006; Owner: Ministry of Defense; Sponsor: National Telecommunication Cooperation
- Cost: USD 4m; Activities: Setting the design and requirements of the Sudanese Army systems
- *Member*, technical team for the "*PC for each Home*" project: January 2005 to present; Sponsored by the Sudanese Information Technology Fund; Cost: more than $20m; Activities: Setting specifications, preparing bid document, bid evaluation, factory inspection, etc.
- *Member*, the technical team for *Second Fixed Telephone Operator* at Sudan bids evaluation: September 2004 – January 2005; National Telecommunication Cooperation (NTC) Sudan, Cost: more than $150m
- Activities: Bids evaluation, Negotiation with the selected companies
- *Chairperson*, Open Source Software technical committee   March 2005 to Present: National Information Centre, Sudan; Activities: setting standards and requirement for the use of open source software at Sudan
- *Project Manager*, Sudanese Universities Virtual Library (SUVL) Network : February 2005 – October 2006, Ministry of Higher Education and Scientific Research, Sudan; Activities: Network Design, Implementation Supervision, Bids evaluation; Cost: about $500,000
- *Member* , the Computer studies Committee: March 2003 to Present
- Ministry of Higher Education and Scientific Research, Sudan; Activities: Advisory committee to the Sudanese Higher Education Council on Computer Studies
- *Member* , Ministry of Higher Education ICT CommitteeJanuary 2003 to Present: Ministry of Higher Education and Scientific Research, Sudan;

Activities: Advisory committee to the Ministry of Higher Education on ICT and virtual library issues.

- *Member*, technical committee national information fund: September 2004 – to present; National Telecommunication Cooperation (NTC) Sudan; Activities: Project evaluation and assessments
- ICT consultant E-government project, NIC, Ministry of Inertial; Ministry of Science and Technology; National Telecommunication Cooperation (NTC) Sudan; Information Fund National Record Office
- Fourth Consultancy Missions, 5/4/1996-26/4/1996. Damascus, April 1996 [Syria Arab Republic, Ministry of Agriculture and Agrarian Reform in collaboration with International Development Research Centre, IDRC, Canada]: Sponsor: The Arab Organization for Agricultural Development].
- Cost: $300,000;
- Member of the Faculty Board Faculty of Engineering and Technology, University of Geziera, 1991-1993: College of Technologies Studies, 1997 to 2004; Computer Man College for Computer Science, Sudan, 1992 to 1997
- Member of number of committees to establish programs in Electrical electronic, Computer studies and Information Technology: Ministry of Higher Education and Scientific Research, Sudan; University of Juba
- College of Technologies Studies; Faculty of Engineering and Technology, University of Geziera; Computer Man College for Computer Studies
- Nyala University; Bayan College
- Advisor to KIPS primary and secondary schools, Sudan for establishing computer studies curriculum 1993-1995
- Member of the Sudanese National Committee for UNICCO task force updating the basic engineering Curriculum at undergraduate level 1995-1996
- External Examiner To: Karari Academy; Bayan College for Science and Technology; Gaziera University; Computer Man

Workshop, Conferences and Colleges

1. The Sixth African Workshop on Wireless Use for Information and Communications Technology, 15 January 2007, University of Khartoum, Sudan
2. Workshop on the Use of Information Technology and Communication in Learning with emphasizes on Arabic Content, Syrian, Damascus 2003
3. Second Conference on Scientific Equipment, Organized by Alesco, Cairo, Egypt, 1997.
4. Second workshop on rural communication in development countries, Italy, 1995; organized by international Centre of theoretical physics, ICTP
5. Fourth College on Radio propagation. Italy, 1995; organized by ICTP

6. Information Technology in Support of Economic Development Conf, Sudan 1991; Organized by Georgia State University, USA, University of Khartoum, Sudan, and National Council of Research, Sudan
7. Workshop on Microcomputer Interfacing, University of Khartoum, 1990 (lecturer). Organized by the Physics Department, University of Khartoum, Sudan
8. Workshop on CD-ROM applications in Developing countries, Sudan 1990. Organized by the National Council of Research, Sudan, and Ford Foundation
9. Workshop on PC applications and uses in Sudan 1990. Organized by the National Council of Research, Sudan

Foreign Countries Visited
1. China 2007, Contract negotiation, Hauwie (consultancy trip)
2. Switzerland, 2007, Study Visit to the WIPO (Official Trip)
3. China 2005, Factory inspection, PC for each home project
4. Syrian, Damascus 2003, Participated in Workshop on the Use of Information Technology and Communication in Learning with emphasizes on Arabic Content
5. UAE, 1999, 2000 (Official Trips)
6. Cairo, Egypt, October 1997, Participated on the activities of the Second Conference on Scientific Equipment, Organized by Alesco.
7. Damascus, Syria, October-November 1996: Visiting Expertise of the Arabic Organization for Agricultural Developed to the Syrian Ministry of Agriculture.
8. Italy Treiste, January-March 1995: Visiting Scientist for the Fourth propagation college and second workshop on rural communication in developing counties
9. UK, University of Bradford, June 1991-April 1992: Postdoctoral Research Follow
10. UK, University of Excess, October 1988-January 1989: Attending a Course on Telecommunications and Information Systems
11. UK, University of Bradford, March-June 1994: Visiting Research Assistant

Editorial Activities
1. Member of the editorial board of the Sudan Engineering Society Journal, 1993 to 1998
2. Member of the editorial board of the Sudan Engineering Society News Letter, 1993 to 1998

Publications

R.1 Books
1. Computer Graphics, Sudan Open University, In Arabic, 2006
2. Network Security, Sudan Open University, In Arabic, 2007
3. Electronic Information Systems Management and their Effects on Cooperation, In Arabic, 2008

R.2 Published papers
1. Rafaa A. Ghobrial and **Sami M. Sharif**, Planning for building digital memory of the Sudan, The 1st International Conference on African Digital Libraries and Archives (ICADLA-1), July 2009, Addis Ababa, Ethiopia.
2. **Sami M. Sharif**, Free and Open Software: Features, Development, Experiences, Benefits and Opportunities, Free and Open Source Software in Sudan workshop, Khartoum June 2009
3. Huda M. A Elhag and **Sami M. Sharif**, Adjusted ARIMA Model: Capturing Local Self-Similarity, Proceedings ICMSAO'09, Sharjah, UAE January 20-22, 2009
4. **Sami M. Sharif**, Open Source Software and Wireless Technologies For ICT Development and Deployment In Africa, New trends in Science and Technology as a tool for Sustainable Development in Africa Workshop, Khartoum 2008.
5. Huda M. A Elhag and **Sami M. Sharif**, "An Adjusted ARIMA Model for Internet Traffic", Proceedings IEEE AFRICON 2007, Volume , Issue , 26-28 Oct. 2007 Page(s):1 - 6
6. **Sami M. Sharif,** Microwave Signal Attenuation Due to Rainfall In Sudan, The Sixth African Workshop on Wireless Use for Information and Communications Technology, January 2007, University of Khartoum, Sudan
7. Hiba M. Osman, **Sami M. Sharif** and Huda M. A Elhag "Backbone Internet Traffic Intensities And Statistics In Sudan", 3rd International Conference on Cybernetics and Information Technologies, Systems and Applications (CITSA 2006), Orlando, USA, 2006
8. Altyeb Altaher Altyeb, **Sami Mohamed Sharif**, Iman Abuel Maaly and Hassan Ibrahim Saleh, Self-Similar Traffic Measurement Algorithm Based on Adaptive Multistage Filters, submitted to IEEE International Conference on Computer Engineering & Systems (ICCES'06), 2006, Egypt
9. Altyeb Altaher Altyeb and **Sami M Sharif** and Iman A Abumaal, "Modeling

of Autocorrelation Functions Using Weighted Non-linear least Squares", The International Journal of Artificial Intelligence and Machine Learning, Vol. 6, No. 1, 2006 pp. 75-78

10. Altyeb Altaher Altyeb and **Sami M Sharif** and Iman Abuel Maaly, "Effects of CSMA/CD on Self-Similarity of Network Traffic", ICGST International Journal on Computer Network and Internet Research, CNIR, Vol. 5, No. 2, 2006 pp. 7-10

11. Altyeb Altaher Altyeb and **Sami Mohamed Sharif** and Iman Abuel Maaly and Hassan Ibrahim Saleh, "ADAPTIVE FLOW SAMPLING FOR SELF-SIMILAR TRAFFIC MEASUREMENT", ICGST International Journal on Computer Network and Internet Research, CNIR, Vol. 5, No. 2, pp. 11-14

12. Mohamed S. Al-Bashrir, Raed M. Shubair and **Sami M. Sharif**, "Measurement and Analysis for Signal Attenuation through Date Palm Trees at 2.1 GHz Frequency, Sudan Engineering Society Journal, Vol. 52, No. 45 2004 pp. 17-22

13. Sami M. Sharif and Sayed Harron AbdelKarim, "A Banknote Numbering Machine Embedded Computer Control System", Sudan Engineering Society Journal, Vol. 40, No. 43 2004 pp. 23-34

14. Adil M. El Sinnari, **Sami M. Sharif** and ElShami M. Musaad, "Using Artificial Neural Network (ANN) For Space Image Recognition", Sudan Engineering Society Journal, Vol. 40, No. 43 2004 pp. 1-10

15. Adil M. A. El Sinnari, ElShami M. Musaad and **Sami M. Sharif**, "Towards a GIS System for Greater Khartoum Based on Remote Sensing and Digital Image Processing Techniques", Sudan Engineering Society Journal, Vol. 40, No. 42 2004 pp. 31-37,

16. **Sami M. Sharif**; " Distance Learning: Pilot Project in Sudan"; Regional Workshop on the Use of Information Technology and Communication in Learning with emphasizes on Arabic Content, Syrian, Damascus 2003 [In Arabic]

17. **Sami M. Sharif**, "Technology Trends in Rural Communications", ITU/BDT Arab Regional Workshop on "Rural TU/BDT Arab Regional Workshop on "Rural Connectivity and Universal Access" Khartoum - Sudan, 10-12 December 2002

18. **Sami M Sharif**;_"Digital Library: Hardware and Design Requirements"; Sudatel Workshop on Digital Library, Khartoum, Sudan [in Arabic]

19. **Sami M. Sharif**, "DAFD-1.0: A Computer Program to Display The Dipole Array Radiation Pattern", Sudan Engineering Society Journal r publication in the ", Vol. 46, No. 38, 2000, pp. 28-35

20. **Sami M. Sharif**; "Year 2K Problem: Dimension and Solutions"; Y2K workshop, Khartoum 1999 [in Arabic]

21. **Sami M. Sharif**; "Effect of the use of the new technologies in the manufacturing of Scientific Equipment on Maintenance and Repair

Processes"; Workshop on Scientific Equipment Maintenance in Arabic World; Cairo 1997 [in Arabic]

22. **S. M. Sharif**, "Clutter and Backscattering of Dust Storms at the X-band", Sudan Engineering Society Journal, Vol.41, No.34, pp 31-36, 1997

23. **S. M. Sharif**, "Performance of Earth-Satellite Links During Dust Storms at the X-band", Sudan Engineering Society Journal, Vol. 40, NO. 33, pp 14-19, 1996

24. AbdelRahim ElObied Ahmed and **Sami M Sharif,** Updating Curricula in Basic and Engineering Science at Undergraduate level: Electrical, Electronics and Computer Engineering Programs, Report submitted to Sudanese National Commission For Unesco, 1996

25. **S. M. Sharif**, "Chemical and Mineral Composition of Dust and Its effect on Dielectric Constant", IEEE Trans. On Geosciences and Remote Sensing, Vol. 33, No. 2, pp 353-359, 1995

26. **S. M. Sharif**, and A. A. ElTigani, "Performance of Some Wire Antenna Systems at 3 GHz Frequency", Modeling, Measurement & Control, A, AMSE Press, Vol. 62, NO. 3, pp 17-24, 1995

27. **S. M. Sharif**, "Effect of Dust Storms and Rain on Microwave Signal Propagation in Sudan". Invited paper, Regional Workshop on Radio communication in Africa, Nigeria, 1995

28. **S. M. Sharif**, and A. A. Eltigani, "Performance of Some Wire Antenna Systems at 3 GHZ Frequency", Proc. PIERS'84 Conf., Netherlands, 1994

29. **S. M. Sharif** and A. M. Ismail, "Traffic In the International Routes of the Sudan Telephone Network", Proc. International Conf. On Telecommunications, Dubai, UAE, 1994

30. **S. M. Sharif**, "Simulation of Earth-Satellite Links Performance During Dust Storms", International Conf. On Modeling & Simulation, New Orleans, Louisiana, 1991

31. **S. M. Sharif**, "Khartoum Area Telephone Network: Parameters and Characteristics", Proc. Information Technology in Support of Economic Development, Sudan, 1990

32. **S. M. Sharif**, "Backscatter Properties of Dusty Medium at X-Band", Proc. Sixth International Conf. On Antenna and Propagation, UK, IEE Proc. 1989

33. J. A. Jervas and **S. M. Sharif**, "Influence of Dust Storms and Reflector Tolerance on Cross Polarization of Earth Satellite Links", Proc. Arabsat Symp., Riyadh, Saudi, pp. 166-169, 1988

34. S. I. Ghobrial and **S. M. Sharif**, "Microwave Attenuation and Cross-Polarization in Dust Storms", IEEE Trans. On Antenna and Propagation, Vol. AP-35, pp 418-427, 1987

35. **S. M Sharif**, "Dust Particle-Size Distribution", International Geosciences and Remote Sensing Symp., IGARRS'87, Ann Arbon, Michigan, USA, 1987

36. S. I. Ghobrial and **S. M. Sharif**, "Microwave Propagation in Air with

Suspending Dust Particles"; International Symp. On Antenna and EM Theory, ISAE'85, China, 1985

37. S. I. Ghobrial, **S. M. Sharif**, M. E. Ateem and M. ElTigani,"Dust Storms in Sudan: Intensity and Particles; Characteristics
", Proc. Jordan IEEE'85 Conf., Jordan, 1985, pp. 326-328

38. **S. M. Sharif** and S. I. Ghobrial, "X-Band Measurements of Dust Dielectric Constant", Proc. IRSI Commission F, 1983, Symp., Belgium, 1983, pp. 143-147

39. S. I. Ghobrial and **S. M. Sharif**, " Measurement of Dielectric Constant of Dust at 8.3 GHz", National Radio Science Meeting, University of New Mexico, Albuquerque, USA, 1982

R.3. Submitted Papers for publication

1. Huda M. A Elhag and **Sami M. Sharif**, "An Empirical Adjusted ARIMA Model for Prediction of Internet Frame Relay Traffic"

2. Huda M. A Elhag and **Sami M. Sharif**, "An Adjusted Arima Model For Internet Frame Relay Traffic

3. Altyeb Altaher Altyeb, **Sami Mohamed Sharif**, Iman Abuel Maaly and Hassan Ibrahim Saleh, Self-Similar Traffic Measurement Algorithm Based on Adaptive Multistage Filter, submitted to IEEE/ACM Transactions on Networking

4. Huda M. A. ElHag and **Sami M. Sharif**, "Application of Wavelets to Measure Long-Range Dependence in The Adjusted Arima Model For Frame Relay Internet Traffic" , submitted to **IPEC 2006** The 6th International Philadelphia Engineering Conference on Computational Aspects and Their Applications in Electrical Engineering CATAEE' **2006**

R.4. Technical Reports

1. Technical report on Fourth Consultancy Missions, 5/4/1996-26/4/1996. Damascus, April 1996 [Syria Arab Republic, Ministry of Agriculture and Agrarian Reform in collaboration with International Development Research Centre, IDRC, Canada]. A Report submitted to the Arab Organization for Agricultural Development]. $300,000

2. S. M. Sharif, "University of Khartoum Information Networks ". A Technical Report submitted to the University of Khartoum, includes the design of the information network. $700,000

3. S. M. Sharif, "Sudanese Universities Virtual Network". A Technical Report submitted to the Ministry of Higher Education and Scientific Research, includes the design of the information network. $2,000,000

4. S. M. Sharif and Yahia Abdullah "Military Information Network: Conceptual Design", report submitted to the Armed Forced Commander and funded by

the National Telecommunication Cooperation, 2006.

5. S. M. Sharif and Yahia Abdullah "National Record Office Information Network", report submitted to the National Telecommunication Cooperation, 2006.