

Prof Dr Arshad Ali
Director General, NUST School of Electrical Engineering and Computer Science (SEECs)
Rawalpindi, Pakistan

My Vision

Academic Vision

1. Helping administration in transforming an academic institution into intellectual opportunity that is creative with a single mission to impart quality education.
2. While it may not be very large in size but it shall distinguish itself as the best among institutes/universities of contemporary size.
3. As a knowledge enterprise, the core program should be the education of the most motivated full-time undergraduates and graduate students who can meet the academic rigors.
4. Ensure knowledge based learning by being bold in providing the kind of forward looking educational programs that take advantage of the intellectual strength of faculty on the one hand and the intellectual growth of individual students on the other. Thereby continually raising the standards of student's achievements.
5. The maturity and strength of on-going programs shall lead to expanding the canvas for initiation of further under-graduate and graduate level degree programs and continually strive for faculty development through training courses/seminars.
6. Develop and pursue research to establish research culture/strong research base in the area of high speed data communication, Networking, digital signal processing and distributed/ Grid computing.

Professional Expertise

I am creative, strategic thinker and possess proven academic leadership skills. In my academic assignments at Systems Research Institute Rawalpindi, Hamdard University Faisalabad Campus, and NUST Rawalpindi I have vividly demonstrated ability to partner with and obtain support from industry, international research organizations and maintained an excellent record of teaching and scholarly achievements. My academic association spreads over 20 years of teaching/research at institutions of national repute, which include National University of Sciences and Technology (NUST) Rawalpindi, Quaid-e-Azam University Islamabad, GIK engineering institute Topi and the University of Pittsburgh USA. I am also spear heading the research team for developing distributed computing applications in collaboration with Caltech USA and Center for European Nuclear Research (CERN) scientists, Geneva, Switzerland. This research effort helped NUST in attaining "CMS-CERN Associate Institute" status, a unique distinction for a Pakistani university. My active partnership helped in attracting USD 2.75 Mil fund from Stanford University USA, Caltech USA, CERN Geneva, Keyung Hee University Seoul Korea and European Union.

I have excellent communications skills coupled with sound knowledge of current issues in computer sciences and electronics engineering. I am committed to co-operative education, and also have a familiarity with the special concerns of a university, particularly the need for enhancing enrollment and securing resources.

Dr ARSHAD ALI

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OBJECTIVE For MOIT

SUMMARY Ph D graduate, with 30 years of teaching / research and maintenance management experience. Proficient in written and oral English communication skills. Well conversant with 4GL languages SQL/PL-SQL, ORACLE Developer 2000, C⁺⁺, Distributed computing, Software Engineering and familiar with computer hardware interfacing for data acquisition.

EDUCATION Ph D EE, University of Pittsburgh, Pennsylvania, USA, December, 1992
MS EE, University of Pittsburgh, Pennsylvania, USA, April, 1989
BE (Avionics), NED University of Engineering & Technology, Pakistan Jan, 1982

EXPERIENCE **National University of Sciences and Technology (NUST), Rawalpindi Pakistan**
Director General Mar 2003 – todate, Responsible for managing administrative and academic affairs of the NUST Institute of Information Technology (NIIT). Planning and providing vision for future outlook of the Institute. Introduced Bachelors, Masters and PhD program of studies at the institute. Developed research culture and established active research linkages with reputed research organizations which include CERN Geneva, Caltech USA, Stanford University USA, Keyung Hee University Korea, Comtec Japan and UWE UK. Teaching software engineering, distributed computing and Java courses. Conducting research and supervision of MS/PhD thesis students in the areas of Grid Computing, Distributed Computing, Mobile Agents and Distributed Database systems. Enhanced industry linkages with Gul Ahmad Textiles Karachi, Genesis Solutions Karachi, Pakistan Rowing Federation, Guard Filters and INTEL, NCR, CISCO and NETSOL.

National University of Sciences and Technology (NUST), Rawalpindi Pakistan
Director Mar 2000-2003, Responsible for managing administrative and academic affairs of the NUST Institute of Information Technology (NIIT). Planning and providing vision for future outlook of the Institute. Introduced Bachelors, Masters and PhD program of studies at the institute. Developed research culture and established active research linkages with reputed research organizations which include CERN Geneva, Caltech USA.

Hamdard University Faisalabad Campus, Pakistan
Director Institute of Information Technology: May 99 – Mar 2000, responsible for syllabi design, conduct of classes and involved in teaching information technology courses to graduate and undergraduate level students. Developed strong faculty for actively pursuing research and university-industry collaboration in the area of networking, MIS and E-commerce.

Assistant Director Operational Requirements & developments, Pakistan Air Force, Pakistan
Project Manager: Jan 96 – May 99, responsible for supervision / management of transfer of technology and indigenous production of electronic systems. Conceived the design/development of Chaff and Flare dispensing system through Air Weapons Complex, Pakistan. The system is in use at Pakistan Air Force and being exported as well.

Systems Research Institute, Rawalpindi, Pakistan
Asst. Director: Feb 98 – Apr 99 (Part time), Administering/planning the courses for Post Graduate Diploma (PGD) and Bachelor in Software engineering (BSE) programs. Teaching computer communication / networking, and internet applications courses to students enrolled in Post Graduate Diploma/BSE programs.

Quaid-e-Azam University, Islamabad, Pakistan

Visiting Faculty: Sept 96 – Dec 97, Taught radar theory/ Communication courses to MSc Electronics.

GIK Institute of Engineering & Technology, Topi, Pakistan

Visiting faculty: Sept 96 - Dec 96, Sept 97 – Dec 98 Taught circuit analysis courses in Faculty of Electronics Engineering.

National University of Sciences and Technology, Rawalpindi, Pakistan

Assistant Professor: Jun 93 – Dec 95, Department of Avionics, CAE Risalpur. Taught principles of radars, radar antenna design data communication, circuit analysis techniques, electronics and semiconductor theory courses to bachelor degree students.

University of Pittsburgh, Pennsylvania USA

Research Associate, Jan 92 - Mar 93, Conducted dissertation research in semiconductor design/ MOCVD growth of III-V compounds. Handled operation and maintenance of state-of-the-art epitaxial growth system. Also worked teaching assistant for electronics courses.

Pakistan Air Force Academy Risalpur, Pakistan

Instructor: Jul 86 - Dec 87, supervised cadets' training and lectured on character building and human psychology. Involved in managing students administrative problems/issues.

School of Electronics, Pakistan Air Force Korangi Creek, Karachi, Pakistan

Instructor: Jan 84 - Jul 86, Taught Basic Electronics, Digital Electronics, Principles of Radar, Communication systems and also supervised electronics laboratory experiments.

Pakistan Air Force, Sargodha Pakistan

Field Engineer: Mar 82 - Jan 84, Responsible for maintenance management of military radars. Carried out feasibility study for installation and operation of low level radars at strategic military sites. Designed and developed on- the-job training program on operation/ maintenance for radar technicians'.

HONORS AND AWARDS

- Recipient of professional efficiency award for outstanding performance in various projects handling, trial management/ evaluation and project execution involving transfer of technology (ToT) from South Africa and China.
- Won first place student research poster paper at 4th annual symposium by American Vacuum Society, Pittsburgh USA.
- Recipient of Chief of the Air Staff Commendation certificate for outstanding engineer.
- Recipient of scholarship for MS and Ph.D. from Ministry of Science & Technology Pakistan.
- Gold Medal recipient for IT research from Pakistan Academy of Sciences/COMSTech 2003
- President's gold medal recipient for best researcher of the year award—2004
- Distinguished Scientist of the Year 2006 from Pakistan Academy of Sciences
- Pride of Performance Award from Govt of Pakistan

PROFESSIONAL COURSES

- ORACLE Faculty Training Course, Punjab IT Board
- Software Engineering Practices Course, KRL Laboratories
- Capability Maturity Model implementation in software industry, NUST Rawalpindi

PROFESSIONAL AFFILIATION

- Associate Member, Institute of Engineers(IE), Pakistan
- Member, Pakistan Engineering Council, Pakistan
- Member, Association of Computing Machinery (ACM), USA
- Member IEEE, USA (Vice Chairman Islamabad Chapter)

PERSONAL Born on 11 Nov 56 at Multan, Pakistan, Extra curricular activities include Golf, Squash, Swimming and Reading.

PhD Thesis Supervision: under Joint Supervision through Caltech, USA and University of the West England UK

1. Mr. Ashiq Anjum (Completed): Physics Analysis Applications for handheld device in Grid environment
2. Mr Waseem Hasan (In progress): MammoGrid: A Service Oriented Architecture based Medical Grid Application
3. Mr Sarmad Malik (In progress): Distributed computing for high performance physics analysis applications

M Phil Thesis Jointly Supervised & Completed at University of West England UK

1. Mr. Waseem Hassan: Data conversion with homogenous and heterogenous sources and their accessibility in a wide area network – 2003.

PhD Thesis Supervision in Progress: at NUST Rawalpindi

1. Mr Hammad Qureshi: Principal Component Analysis based Diagnosing Network-Wide Traffic Anomalies
2. Mr Nauman Ahamd: A Distributed Application Model for Mobile Networks – 2003

Summary of Current Research Initiatives

Funded Projects

1. Interactive Grid Analysis Environment (IGAE), Amount from Pak side: Rs 4.82M and from US side: \$100,000
2. Measurement and Analysis for the Global Grid and Internet End-to-End Performances (MAGGIE). Amount Rs. 9.724 M
3. Establishment of Grid Node at School of Electrical Engineering and Computer Science (SEECS). Amount Rs. 34.832 M
4. Development of Grid Enabled Knowledge Management System at SEECS (Caltech USA). Amount: Rs. 9.516 M
5. Test Bed for Sensor Networks Applications Development and Testing SEECS in collaboration with AJOU University South Korea. Amount. \$37200.
6. Networks Performance Monitoring of PERN. Amount Rs. 36.853 M
7. Capacity Building of Lady Health Workers in Rural Mardan, NWFP. Amount from Pak side: \$ 187127.85 and from US side: \$38325.
8. Establishment of Super Computing and Education Center NUST. Amount Rs. 38.99 M.
9. Grid Enabled Applications for Handheld Devices. Amount Rs. 1.073M.
10. NOKIA research center China: Amount 26000 USD

Projects in Progress

Project-1 DIAMOnDS

"DIAMOnDS - DIstributed Agents for MOBILE & Dynamic Services - is a Mobile Agents Framework for hosting dynamic services in the form of mobile agents. The framework is based on a service oriented architecture where the software mobile agents are registered/published as services, using their attributes as the basis of registration.

Initially, a basic infrastructure for mobile agents has been developed that allows hosting and secure movement of agents between different hosts- Agent Stations - deployed at different remote nodes across the WAN. This infrastructure has been tested for accurate agent mobility, reliability and security. The current efforts are directed towards use of such dynamic services in network monitoring, self organization, data manipulation on behalf of a user, calculating optimal network path for data transfer connections in WAN etc. Basic agent functionality from this framework can be extended to develop customized agents, tailored to a user/developer's needs.

This project is being carried out at National University of Sciences and Technology (NUST), Pakistan in collaboration with California Institute of Technology, USA. The basic idea of such a framework has been derived from the following papers:

A Distributed Agent based Architecture for Dynamic Services by Harvey B.

Newman, Iosif C. Legrand and Julian B.

Bunn. (http://clegrand.home.cern.ch/clegrand/CHEP01/chep01_10-010.pdf)

A Self-Organizing Neural Network for Job Scheduling in Distributed Systems

by Harvey B. Newman, Iosif C.

Legrand. (http://clegrand.home.cern.ch/clegrand/SONN/note01_009.pdf)"

Project-2 MONALISA

"Monitoring Agents Using Large Integrated Services Architecture" is a Monitoring Service for the Grid Environment. Monitoring Service is a vital component for development of GRID Model. It helps the development of realistic "optimal" strategies for resource management and user interactions with Grids which is both resource constrained and truly global in scope.

This prototype Monitoring system aims to provide a distributed monitoring service system using JINI/JAVA and WSDL/SOAP technologies. It acts as a dynamic service system and provides the functionality to be

discovered and used by any other services or clients that require such information. This is part of a loosely coupled service architectural model to perform effective resource utilization in large, heterogeneous distributed centers.

The framework can integrate existing monitoring tools and procedures to collect parameters describing computational nodes, applications and network performance. It has build-in SNMP support.

This project is being pursued in collaboration with Caltech, USA and Dr Iosif Legrand at CERN Geneva.

For further info pl visit: <http://monalisa.cern.ch/MONALISA/>

Project-3 Title: Grid Enabled Physics Applications for Handheld Devices

This Project is being pursued through Active collaboration with California Institute of Technology (Caltech), USA. The basic architecture has been developed for such a system which is based on access to resources from the Grid infrastructure. It is using RDBMS (POSTGRESQL) to store the analysis data (ntuples). A special remote data server named Clarens (developed at Caltech) deployed at the core of our system will communicate with the databases and will return the ROOT Objects using OTL (Object Tag Library) and SQL2ROOT as Plug-in .These Objects downloaded on PDA from Clarens Server will be analyzed using JAS (Java Analysis Studio) and then will be rendered as Plotting of 1d, 2d histograms, XY plots, scatter plots etc. at PDA client. Well-defined interfaces will be developed to ensure seamless communication between these major components. The middleware will be designed to ensure communication between the backend and hand-held clients take place smoothly, independent of the client type.

Project- 4: Communicating Agents as Intelligent Web Services with Grid Services in Semantic Grid Environment

Our aim in this project is to leverage the intelligence of agents, resource sharing capabilities of grid, architecture and key technologies of web services (WSDL, UDDI), security, resource management and data management features of GLOBUS, capabilities of semantics web and use all these key technologies in order to make intelligent and resource sensitive grid services that can communicate with other grid services and agents published as grid services in a semantic grid environment. The motivation behind this idea is to bridge the gap between agents and web services in order to combine the best of two worlds and make this work in semantic grid environment.

This project is being pursued in collaboration with communication technologies, Japan

Project – 5: CONSCIENTIA

The project CONSCIENTIA aims to incorporate the redundant and loosely coupled nature of peer-to-peer networks, business-to-business integration of web-services, Universal Description, Discovery, and Integration of service oriented architecture (SOA) in UDDI Registries and platform independence of XML and Java for providing a platform for distributed services.

The applications of such a framework are:

Distributed data management for scientific and commercial applications.

Implementing distributed meta data catalogs.

Providing a mediator layer for accessing various database systems.

Ad Hoc Networks and mobile services.

REFERENCES

1. Harvey B. Newman
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E-mail: Richard.McClatchey@cern.ch

PUBLICATIONS

1. Arshad Ali (1992), "Design, Fabrication and experimental analysis of modulatable optical wave guide with low absorption", Ph.D. dissertation, University of Pittsburgh, Pittsburgh Pennsylvania, USA
2. Arshad Ali "Characterization of MQW structures grown by MOCVD : Award Winning Research poster paper at 4th Annual Symposium" Advances in Plasma and Sputter deposition, organized by American Vacuum Society 1991, USA.
3. Arshad Ali, Rob D Coalson, D W Langer, "Analysis of Eigen Modes of MQW optical waveguide with lossy upper cladding", Proceeding of 32nd Modeling and Simulation Conference, May, 1992 USA.
4. Arshad Ali, Salim Akbar, Rob D Coalson and D W Langer "Quantum Mechanical Approach for computing Eigen Modes of low Loss Field Induced Waveguides", Proceedings of 19th International Nathiagali Summer College 1994, Pakistan.
5. Jehanzeb Burki, Salim Akbar, Arshad Ali, S M H Zaidi and Hafeez Ur Rehman, "Semiconductor Laser Communication Link", Science Technology and Development, Vol. 13, No 4, October-December, 1994 Pakistan
6. Arshad Ali and Salim Akbar, "Infrared Airborne Reconnaissance : A Military Vision in the Dark", 7th National Aeronautical Conference, 26-27 March 1995 Pakistan
7. Ahsan Sarfraz, Salim Akbar and Arshad Ali "An Image Acquisition System Employing a Stepper Motor Based Electro- Optical Scanner", 7th National Aeronautical Conference, 26-27 March 1995 Pakistan
8. Arshad Ali and Salim Akbar "Computer Based Military Simulated Training", 7th National Aeronautical Conference, 26-27 March 1995 Pakistan
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11. Arshad Ali and D W Langer, "Metal Organic Chemical Vapor Deposition Epitaxial Growth of Multi-Quantum Well Structures" 7th IEEE International conference on Microelectronics, 19-21 December, 1995, Kualalumpur Malaysia
12. Salim Akbar, Arshad Ali, Hafeez-ur-Rahman and S M H Zaidi, "Semiconductor Laser Modulation Techniques", The Nucleus, Vol 33, No 4 (1996)
13. Arshad Ali, "Physics of two dimensional electron gas (2DEG) in GaAs- AlGaAs Multi-Quantum Well (MQW) structures", Semiconductor News, Vol 6, No 2 April - June 1997.
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15. Arshad Ali, "Grid Enabled Knowledge Management System", Core Computing Software Annual research review, 10-14 June 2002 CERN, Geneva, Switzerland

16. Arshad Ali, "Grid Technology-Framework for Future Internet", IEEE Conference ISCON 2002 on emerging technologies, 16-17 August 02, Lahore, Pakistan
17. Kamran Munir, M Waseem Hassn, Arshad Ali, R McClatchey and Ian Willers, "Database Independent Migration of Objects in Object Oriented Databases", IEEE Conference ISCON 2002 on emerging technologies, 16-17 August 02, Lahore, Pakistan
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19. M Aamir Shafi, Maria Riaz, Saad L Kiani, Anjum Shehzad, Umar F Khalid, Arshad Ali, Iosif Legrand, Harvey B Newman " Distributed Agents for Mobile and Dynamic Services" CHEP 2003, 24-28 March, 2003 California
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<http://www2.uerj.br/~lishep/lishep/schedule.html>
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<http://dblp.uni-trier.de/rec/bibtex/conf/ecai/GhafoorMAASA04>
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31. Sadia Malik, Uzair Ahmad, Arshad Ali, Fatima Abbasi, "Testing Price Prediction Models in Dynamically Configurable Artificial Stock Market" IC-AI June 2004, PP 671-677 <http://dblp.uni-trier.de/rec/bibtex/conf/icai/MalikAAA04>
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39. Arshad Ali, Ashiq Anjum, Ian Willers, Richard McClatchey, Julian Bunn, Harvey Newman, Atif Mehmood, "A Taxonomy and Survey of Grid Resource Planning and Reservation Systems for Grid Enabled Analysis Environment" International Symposium on Distributed Computing and Applications to Business, Engineering and Science (DCABES), Wuhan, 2004.
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