Dr. Saleem Farooq Shaukat has joined CIIT Lahore as Head of Electrical Engineering Department from February 01, 2010.

Dr. Saleem Farooq Shaukat has long and outstanding career in the academic research and teaching, spanning more than 21 years. He has a strong research background in the field of Optoelectronics. He completed his Masters from Quaid-i-Azam University, Islamabad. He has his Doctoral Degree from London and the Post Doctorate from East China University of Science and Technology, Shanghai, China.

He has been HEC recognized PhD supervisor since 2002. He has been awarded the Productive Research Scientist Award by the Ministry of Science and Technology, Islamabad for the years 2004 and 2007. He has published thirty six (36) research papers in the International Journals and has supervised nineteen (19) research projects. He is a very active member of different National and International scientific organizations.

Dr. Saleem has been working on various research and teaching positions at Brunel University, London, East China University of Science and Technology, Shanghai, China and Government College University, Lahore, Pakistan. He is actively involved in the teaching and research at postgraduate and undergraduate levels. Dr. Saleem is concretely achieving the objectives of national and international importance with visible impact and significant difference in higher learning in the field of Optoelectronics and Optical Communication Technology.
Professor Dr. Muhammad Sarfraz (Kuwait University) Visited CIIT Lahore

Dr. Muhammad Sarfraz is a professor in Kuwait University (Kuwait). He received his PhD from Brunel University (UK, 1990). He is Head of Research Committee in Information Science Department, Kuwait University. Professor Sarfraz has advised/supervised more than fifty students for their M.Sc. and PhD theses.

He is currently working on various projects related to academia and industry. His research interests, in general, are computer graphics, pattern recognition, computer vision, image processing, and soft computing. He has published more than 200 publications in the form of various books, book chapters, journal papers, and conference papers.

Dr. Sarfraz is a member of various professional societies. He is a chair, co-chair, and member of the International Advisory Committees and Organizing Committees of various international conferences, symposiums, and workshops. He is the reviewer for many international journals, conferences, meetings, and workshops around the world. He is Editor/Guest Editor of various international conference proceedings, books, and journals. He has achieved various awards in education, research, and administrative services.

Professor Dr. Sarfraz visited CIIT Lahore from 28 January - 02 February on invitation of Dr. Saquib Sarfraz AP EE. During his stay at CIIT he delivered conducted Seminars, Lectures and workshops. Further he had discussion session on long term relationship between two institutions that include:

- Short-term faculty exchange program
- Joint conferences/seminars
- Joint MS/PhD projects supervision
- Joint research funding applications
- Placement of young faculty in their MS and PhD programs

DICE 2009- All Pakistan Digital Innovation and Design Competition

All Pakistan Digital Innovation Competition & Exhibition is an event involving people from both academia and industry from all around the country to present their digital innovation based projects of Industrial application and collaboration. DICE is held every year in Pakistan, in which universities from all over Pakistan participate.

DICE 2009 was held on 23-24 December, 2009 at COMSATS Institute of Information Technology, Lahore. Event was planned under technical guidance of Dr. Khurshid Qureshi, a leading industrial expert from USA. More than 80 projects were registered in discipline of Computer Science, Electrical, Chemical, and Mechanical Engineering from various universities throughout Pakistan. Among all 68 best projects were selected for final display and competition.

Event was inaugurated by Mr. Ahsan Iqbal, Ex-Federal Minister of Education, Chief Coordinator & Information Secretary, PML-N. Guests of honor include following names:

- Mr. Zafar Iqbal Chaudhary, President Lahore Chamber of Commerce
- Dr. Naveed A. Malik, Vice Chancellor, Virtual University
- Dr. S.M. Junaid Zaidi, Rector COMSATS Institute of Information Technology
- Mr. Faisal Sher Jan, Director Strategic Planning, Jang Media Group
"DICE 2009 is best project exhibition of its kind so far." said Dr. Khurshid Qureshi, Technical Advisor DICE

Opening Speech for DICE 2009 was given by Rector CIIT, Dr. S.M. Junaid Zaidi, followed by speech of Mr. Ahsan Iqbal. Souvenir for chief guest was presented to Mr. Ahsan Iqbal by Rector CIIT, Dr. S.M. Junaid Zaidi at the end of inauguration ceremony.

Invited Talks

- Dr. Mudasser F. Wyne, National University, USA, gave presentation on DBMS Architecture for Time Sensitive Applications and he was presented a Souvenir by Dr. Khursheed A. Qureshi, Technical Fellow USA.
- Dr. Imran Haye, University of Minnesota Duluth, Member IEEE, gave talk on A Novel Approach for Heart Murmur Detection/Classification Using Cochlea-Like Signal Processing.
- Asif Kabani, Internet Governance Specialist, Geneva, Switzerland and his topic of talk was Digital Revolution Opening Channels through E-Learning for Sustainable Development Paradigm and Strategy.
- Maliha Asif Kabani, President, International Sustainable Development Resource Center, Geneva, the topic of her speech was Digital Revolution Opening Channels through E-Learning for Sustainable Development Paradigm and Strategy.
- Dr. Faheem Sheikh, Senior Technical Lead in Systems Group, Mentor Graphics, Pakistan his topic was Embedded Software Development at Mentor Graphics Pakistan.

Seminars

- Muhammad Qasim Butt, National Project Manager from Dragonware Inc., Canada and his topic was WiMAX as an emerging broadband wireless access technology.
- Usman Ahmad Nasir, Senior Design and Application Engineer Sensys (INTECH) Inc and his topic was Supervisory Control and Data Acquisition for Industrial Processes and latest Trends in Industrial Automation in Pakistan.
- Omer Sarwar, Project Manager, Motorola Pakistan, presented the seminar in Dice 2009.
- Mr. Adeel Rizvi from Corvit Systems Lahore and his seminar was on Introduction to VoIP, Importance of VoIP, Implementation & Configuration.

DICE 2009 Participants

More than 200 students from various universities throughout Pakistan participated in this event. Following is the list of participating universities.

1. GIK Institute of Engineering Sciences and Technology, Topi, NWFP.
2. University of Engineering and Technology, Lahore.
5. Dawood College of Engineering and Technology (DCET), Karachi.
6. Federal Urdu University, Islamabad.
7. COMSATS Institute of Information Technology, Islamabad.
8. COMSATS Institute of Information Technology, Lahore.
9. School of Electrical Engineering and Computer Sciences, NUST, Islamabad.
10. Lahore University of Management Sciences, Lahore.
11. Air University, Islamabad.
12. Institute of Space Technology, Islamabad.
13. International Islamic University, Islamabad.
14. National University of Science and Technology, Islamabad.
15. University of Engineering and Technology, Taxila.
17. Military College of Signals (NUST), Islamabad.
18. COMSATS Institute of Information Technology, Wah Cantt.
19. NED University of Engineering and Technology, Karachi.
20. COMSATS Institute of Information Technology, Abbottabad.
21. NWFP University of Engineering & Technology, Peshawar.
22. The University of Lahore, Lahore.
Panel Discussion

Panel discussion was held on the topic: Industry Academia Collaboration; an inevitable need for progress and development in Pakistan.

Following panelists included in Panel Discussion:

- Dr. Mudassar F. Wyne, National University, USA.
- Dr. Khurshid Qureshi, Industrial Expert, USA.
- Asif Kabani, E-Governance Specialist, Switzerland.
- Maliha Asif Kabani, President ISDRC, Geneva.
- Mr. Faisal Sher Jan, Director Strategic Planning, Jang Media Group.

All guests, faculty members from CIIT, other universities, and students participated in this discussion. Strong linkage between industry and universities was discussed in detail. Progress of research in industries were highlighted and elaborated.

Closing and Awards

Dr. Khurshid Qureshi, Technical Fellow, USA discussed his views, at closing ceremony, about DICE 2009 and appreciated the efforts made by CIIT Lahore to organize this event. He also shared his experiences with participant students and encouraged their innovations.

Dr. Shaukat Ali Hayat, Director CIIT Lahore, gave closing speech for DICE 2009. He encouraged participant students for their hard work and dedication towards their projects.

Director CIIT also presented shield to Dr. Khurshid Qureshi, Technical Advisor DICE.

DICE 2009 Winner and Runner Up Awards

All participating teams were awarded certificate of appreciation. A cash prize of Rs: 50,000/- and Rs: 25,000/- was awarded to winning and runner up team respectively in both Digital Innovation and Industrial Application category.

Category: Digital Innovation

2. Spontaneous Potential Logging with IT Applications (Small Scale) Merhan UET, Jamshoro, Syed Ali Naqvi, Kamran Kalwar, Habib Memon, Niaz Ali Shambani

Category: Industrial Application

1. Reverse Engineering of Motorcycle Engine block using 3D scanning and rapid prototyping. NWFP, UET, Syed Mohsin Ilyas, Waqas Ahmad, Mohsin Iqbal, Kaleem Ullah
2. Study and Simulation of Tarbela Reservoir without Sedimentation, GIK, Maftooh-Ur-Rehman, Anwar Shah.
DICE Technical Chair Appreciation Awards of $100

1. Design and implementation of Magno touch/multi touch surface, UET Lahore, Asma Farhat, Saba Sarwat, Irum Nawaz, Sobia Amjad
2. Automation of Dyeing Machine, COMSATS Lahore, M. Ahsan Sardar, Ghulam Murtaza, Umer Hameed, Rana Tariq Mahmood
3. Electro Mechanical Global Interface System for visually Impaired Persons, International Islamic University, Islamabad, Adil Farooq, Adnan Zahid, Muhammad Kalim, Umair Hafeez Khan
4. Decentralized vehicle security and tracking with integrated GPS, COMSATS Lahore, Kashif Iqbal, M. Usman, Syed Affan Ali, Ahmed Iqbal
5. Perform static stress analysis of a process plant piping system/loop using FEA and comparing the results with ASME code B31.3. and by using CAESAR II, NED UET, Karachi

Words by Convener DICE 2009

As Convener DICE 2009, first of all I would like to thank for the generous support and kindness of Dr. Syed S. M. Junaid Zaidi, Rector CIIT. I am also obliged for his presence on the event. Dr. Shahid Khan, Dean EE is the person who promoted the idea of hosting DICE at CIIT, Lahore. I am thankful for his co-operation. I am really grateful to Dr. Shaukat Ali Hayat, Director CIIT Lahore Campus for his generosity, kindness, support and broad mindedness. I am indebted to Dr. Khurshid Qureshi for his guidance and kind presence on the occasion.

I would like to acknowledge the cooperation and facilitation from Dr. Saleem Akhtar, HoD EE in regard of DICE 2009. I would like to appreciate Committee Chairs who planted their teams to work hard and got such remarkable output. Mr. Nadeem Rafiq Assistant Prof. EE, Chair Registration Committee, Mr.Yasser Majeed, Assistant Prof. EE, Chair Finance Committee, Mr. Rashid Najeeb, Assistant Prof. PHY, Chair Local Arrangement Committee, Mr. M.Ali, Assistant Prof. EE, Co-chair Exhibition Committee, Mr. Ahmed Mudasser, Assistant Prof. EE, Chair Publication Committee and Dr.Ali Nawaz, Assistant Prof. EE, Chair Technical Committee are the team leaders who must be appreciated for their work.

I would like to extend these acknowledgments to recognize the efforts of some individuals whose hard work, enthusiasm and dedication made this event a success. Finance Committee team members Mr. Abbas Javed, Lec. EE, Mr. M. Fraz ,Lec EE, and Ms. Ayesha Ali, Lec EE, worked for the financial planning and as well as for the coordination of the whole event. Mr. Khurram Zaidi,Assistant Prof.EE, Mr. Baber Ali, Lec EE, and Ms. Ayesha Ali, Lec EE, held responsibility of program management. Mr. Ahmed Saeed, Lec EE, Mr. Haris Khan, Lec EE, and Ms. Reema Inam, Lec EE, worked as a sub- team for the program management. Mr. Kashif Imran, Lec EE, Mr. Junaid Akhtar, Lec EE, and Mr. Haleem Junejo, Lec EE, put their efforts for local arrangements. Mr. Usman Rafiq, Lec EE, Mr. Adnan Elahi, Lec EE, Mr. M. Shuja Khan, Lec EE, Mr. M. Yasin, Lec EE, Mr. Adil Humayun, Lab Engr. EE, Ms Tanzila Younas, Lab Engr. EE, Ms Reema Inam, Lec EE, and Ms Rabia Chauhadry, Lab Engr.EE, are the members of Publication Committee, whose efforts must be appreciated. Mr Adnan Elahi, Lec EE, and Mr. M. Fraz, Lec EE, must be acknowledged for their efforts in regard of registration process. Their organized work was also appreciated by the guests and participants. Mr Fawad Ahmed Khan, Lec ChE, and Mr. M.Ali, Assistant Prof.EE, Co-chairs of Exhibition Committee provided the participants all the necessary facilities to exhibit their projects. Mr. Talha Akram, Lec EE, Mr M. Jawad, Lec EE, and Mr. Saqib Salahudin, Lec EE, invited media person and worked for industrial liaison. The hard work of all the staff members including lab staff and drivers must also be cherished.

Dr. Saquib Sarfraz
Convener DICE 2009
Research, Publications and Seminars

Computer Vision Research Group [COMVIS]

Three research papers of COMVIS have been published in proceedings of FIT 2009, International Conference on Frontiers of Information Technology held on 16th – 18th December, 2009 at COMSATS Abbotabad. These proceedings will be included in ACM Digital Library. One of these papers received Best Paper Award.


2. Z. Riaz, C. Mayer, M. S. Sarfraz, M. Beetz, and B. Radig, Multi Feature Fusion in Advanced Robotics.

3. M. H. Khan, I. Kyproais, U. Khan, “A Robust Background Subtraction Algorithm for Motion based Video Scene Segmentation in Embedded Platforms”.

A book chapter by M. Saquib Sarfraz on “Feature Extraction and Representation for Face Recognition” is in press (INTECH publishers Austria) for publication.

Mobile Communications and Network Research [MCN]

Three research papers of MCN research group have been published in proceedings of FIT 2009.


MEMS Research

Mr. Shuja Khan, Lecturer EE presented his research paper titled, “Comparative Study on System Model and Finite Element Analysis of a Monolithic 3DOF MEMS Capacitive Accelerometer” in International Conference on Semi-Condutor Technology, ICSCT ISBN # 978-1-4244-5383-2 held on 18-19 December 2009 at Jeju Island, South Korea.

Participation in FIT

Following faculty members of EE Dept. attended FIT 2009 held on 16th – 18th December 2009 at COMSATS Abbotabad

- Mr. M. Haris Khan, Lecturer, EE
- Mr. Ahmad Saeed, Lecturer, EE
- Mr. Ahmad Fayyaz, Lecturer, EE
- Mr. M. Yasin, Lecturer EE

Mr. M. Haris Khan presented his research paper titled “A Robust Background Subtraction Algorithm for Motion based Video Scene Segmentation in Embedded Platforms”.

Mr. Ahmad Saeed presented his research paper “Bayesian Prior Models for Vehicle Make and Model Recognition”.

Mr. Muhammad Yasin attended FIT 2009 as supervisor of a undergraduate project titled “Security System using Face Authentication” and also presented a research paper on behalf of Dr. Ali Nawaz.

Mr. Ahmad Fayyaz represented Project Lab, EE in FIT with four other projects supervised by various EE faculty members.

Seminars and Workshops

Mr. M. Haris, Lecturer EE, delivered seminar on “A Robust Background Subtraction Algorithm for Motion based Video Scene Segmentation in Embedded Platforms”. [Dec 10, 2009]

Mr. Junaid Akhtar, Lecturer EE, delivered seminar about “Evolution in Mobile Phone Generations and Technology”. [Dec 19, 2009]

Appreciation Awards in DICE 2009

Following two projects of EE Dept. received appreciation awards in DICE 2009

1. “Decentralized vehicle security and tracking with integrated GPS” supervised by Dr. Ali Nawaz Khan, AP EE

2. “Automation of Dyeing Machine” supervised by Mr. Abbas Javed, Lecturer EE
Sports

EE Won All Campus Faculty Cricket League

EE Cricket Team led by Mr. Khurram Zaidi (Captain) won all five league matches against, Mathematics, Management, Chemical, Administration and Computer Science department before progressing to the Semi final match with Computer Science department. This match was also WON, and EE cricket team played the final match against administration department team.

1. Semi- Final was played against Computer Science Dept. EE won this match. Computer Science Dept. team elected to bat first and scored 89 runs. M. Jawad got this score in the last over and hit 5 sixes which led to victory of EE team. M. Jawad was declared man of the match.

2. Final match was played against Administration Dept. and EE team got a promising victory by 9 wickets. Administration department won the toss and elected to bat first, and scored 75 runs. During the chase, the openers (Dr. Ijaz Ansari & Khurram Zaidi) of EE department played a fantastic inning; Dr. Ansari (man of the match) remained unbeaten at half century and lead EE to a great victory in just 6.3 overs. Muhammad Jawad was awarded as the Player of the Tournament.

3. One interesting league match was played against Computer Science Dept. EE Dept. team batted first and thrashed Computer Science Dept. scoring 111 runs in 8 overs, with all our batsmen, Mr. Khurram zaidi, Dr. Ali Nawaz Khan, Dr. Ejaz Ansari, Mubeen Masud, M. Fraz, M. Jawad, Mohsin Ali. Computer Science Dept. batted well and came very close at the end. Only 5 runs were required in last over but with brilliant bowling by Mr. M. Jawad (Man of the match) EE Dept. team won this match.